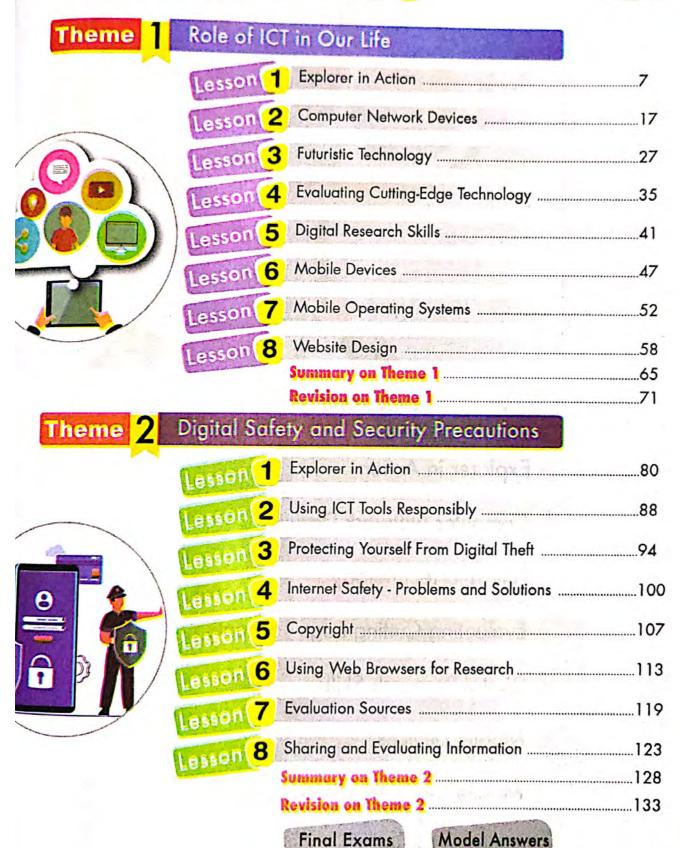




Contents



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· 自然是一個人一個人一個人一個人一個人一個人一個人一個人

In this theme, you will learn about the mechanisms to deal with ICT (Information and Communication Technology) in order to cope with the latest technological developments.

This includes identifying the operating systems for devices, such as mobile devices and PCs.

You will also create the concept and plan a website that promotes a cutting-edge assistive technology product.



Lesson

Explorer in Action

Mr. Kartik Sawhney

- Mr. Kartik Sawhney is a National Geographic Explorer and a computer expert.
- >>> He uses technology to empower people of determination.
- >> He earned his Bachelor's and Master's degrees in Computer Science at Stanford University, California, in the USA.
-) His studies focused on:
 - 1 Artificial intelligence (AI). 2 Human-computer interaction.
 - السيد كارتيك ساوهني مو مستكشف نشط في ناشونال جيوجرافيك، وهو خبير بالكمبيوتر.
 - و يُستخدم ساوهني التكنولوجيا لتمكين الأشخاص من ذوى الهمم.
 - حصل على شهادتَى البكالوريوس والماجستير في علوم الكمبيوتر من جامعة ستانفورد بكاليفورنيا في الولايات المتحدة الأمريكية. ، وقد ركَّزت دراسته على الذكاء الاصطناعي والتفاعل بين الإنسان وأجهزة الكمبيوتر.
- Mr. Sawhney creates applications that provide access to visual content for the blind and visually impaired.
- Mis app converts graphs into audio frequencies, allowing the listener to hear the difference in information in the graph.
- 3 He has worked on projects with over 20 universities and corporations and has impacted over 12,000 people of determination worldwide.
- For his outstanding work, he has received national and international awards, including:
 - 1 The Queen's Young Leaders Award
 - 2 The UN Young Leader's Award
 - ببتكر السيُّدُ سأوهني تطبيقات تسمح للأشخاص المكفوفين وضعاف البصر بالوصول إلى المحتوى المرشي.
- . و يقوم تطبيقه بتحويل الرسوم البيانية إلى تردُّدات صوتية: مما يسمح للمستمع أن يسمع الاختلاف في المعلومات بالرسم البياني
- و وقد عمل على مشاريع مع أكثر من ٢٠ جامعة ومؤسّسة، وأثر على أكثر من ١٢٠٠٠ شخص من ذوي الهمم حول العالم.
- ونتيجة لعمله المتميّز، حاز على جوائز محلية وعالية، ومنها: جائزة الملكة للقادة الشباب، وجائزة الأمم المتحدة للقادة الشباب.







How does Mr. Sawhney help people of determination

- >> There are over one billion people of determination worldwide. To help them, Mr. Sawhney co-founded istemai.com.
- >> I-Stem (istemai.com): It's a platform that provides software that changes digital texts into a format that can be easily used by the blind and visually impaired.
- 1 A person who can't read a text might upload that text to the I-Stem website.
- 2 The software converts the file into a Word document.
- 6 A few minutes later, the person receives the converted document and listens to the text using a screen reader, which automatically reads the text aloud.
- يوجد أكثر من مليار شخص من ذوي الهمم حول العالم. ولكي يساعدهم شارك ساوهني في تأسيس I-Stem (استماعي).
- يوبي ---- . هي منصّة تُقدّم برنامجًا يُغيِّر النصوص الرقمية إلى صيغة يمكن استخدامها من قِبَلِ الكفوةين وضعاف البصر بسهولة. مكن للشخص الذي لا يستطيع قراءة النص أن يُحمَّل ذلك النص إلى موقع I-Stem.
 - 2 تُحوُّل البرنامج الملف إلى مستند ببرنامج Word.
- و بعد دقائق قليلة، يتلقى الشخص المستند المحول ويستمع إلى النصّ باستخدام قارئ الشاشة الذي يقرأ النصّ بصوت عال بصورة تلقائية.

Other benefits of I-Stem for people of determination:

- The I-Stem platform (istemai.com) also includes mentorship and employment opportunities for people of determination.
- This is achieved by working closely with governments, technical universities, and corporations.
- >> The platform is supported by UNICEF, Microsoft, and the National Geographic Society, among other partner organizations. This makes it easier for people of determination to access the services and venues of the organizations.
 - تتضمُّن منصَّة I-Stem أيضًا فُرَصًا للإرشاد والتوظيف للأشخاص من ذوي الهمم. ويتحقُّق ذلك من خلال العمل عن كُثُب مع الحكومات والجامعات التكنولوجية والمؤسُّسات.
 - · النصة مدعومة من اليونيسيف، ومايكروسوفت، ومجتمع ناشونال جيوجرافيك، بالإضافة إلى المنظَّمات الشريكة الأخرى، وهذا يُسهِّل على ذوى الهمم الوصول إلى خدمات وأماكن المنظمات.







0 8 0 ICT Prim. 6 - First Term

Explorer in Action -

Volunteer mentors can help people of determination with: يوجد مدربون متطوعون يمخنهم مساعدة ذوى الهمم فى الأتى:



) lob seekers can upload their resume to the partnering company's site and the Human Resources (HR) department will review the resumes for consideration.

و يمكن للباحثين عن العمل أن يُحمِّلوا سيرتهم الذاتية إلى المواقع الإلكترونية الخاصة بالشركات الشريكة، وسيقوم قسم الموارد البشرية يفحصها.

Egypt's Efforts for People of Determination

- Egypt supports people of determination in many settings.
 - 1 To assist the visually impaired, the Taha Hussein Library in the New Bibliotheca Alexandrina has scanners with special software that converts printed text into audio.
 - 2 Scholarships and special opportunities are offered to gifted individuals, such as "The Miracle Child" Rania Saleh, who is a talented computer programmer with Down Syndrome.
 - 3 In 2022, Egypt launched several initiatives to empower over 20 million Egyptians who are people of determination.
- >>> These initiatives guide organizations to integrate employees of determination in the workforce and create job opportunities.
- >> In addition, the Ministry of Manpower is developing programs that educate and train people of determination for the job market.

معد مصر الأشخاص من ذوي الهمم في العديد من الأماكن:

وعم مسر . أمن أجل مساعدة ضعاف البصر، تحتوي مكتبة طه حسين في مكتبة الإسكندرية على ماسحات ضوئية تتضمُّن برامج

و تُقدُم المنح والفرص الميزة للأفراد الموهوبين، مثل والطفلة المعجزة، رانيا صالح، وهي مبرمجة كمبيوتر ماهرة مصابة بمتلازمة داون. المسنة ۲۰۲۲، أطلقت مصر عدة مبادرات لتمكين أكثر من ۲۰ مليون مصري من ذوي الهمم. يُرف على المادرات المنظّمات لدمج الموظفين من ذوي الهمم بالقوى العاملة وإنشاء فرص عمل لهم. . إنهائة إلى ذلك، تُطوِّر وزارة القوى العاملة برامج لتعليم الأشخاص من ذوي الهمم وتدريبهم لسوق العمل. . تسمح جهود السيد ساوهني والدولة المصرية للحقوق والخدمات بأن تصيح شاملة حقًا.

Explanatory & Information

معلومات توضيحية إضافية خارج الكتاب المدرسى

Down Syndrome is a genetic disorder that some people are born with.

It means they have an extra chromosome in their body, which can make them look and learn a little differently. People with Down Syndrome might need more time to learn things like talking, walking, and reading.

People with Down Syndrome are different from other people, but they are not bad.

They are just as special and valuable as anyone else.

Exercises Info

>> There are several ways to create a website using:

- Platforms
- >> It gives a few choices on the layout, color, and content.

WordPress

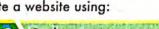
• توفر بعض الخيارات بشأن التخطيط واللون والمحتوى

Coding Languages

- >>> It is used by expert programmers like Mr. Kartik Sawhney.
- >>> It makes a website look a specific way and do exactly what you want.

. بتم استخدامه من قبّل المبرمجين الخبراء مثل السيد ساوهني.

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. معل موقع الويب يبدو بطريقة معينة ويفعل ما تريده بالضبط،

HTML is a programming language that allows web developers to arrange the various parts of their website using less codes.



· لغة HTML هي لغة برمحة تسمح لمطوري الويب بتنظيم الأجزاء المتعدَّدة من موقعهم الإلكتروني باستخدام أكواد برمجية أقل.

Advantages of Learning HTML

- It is relatively easy to learn and runs on all browsers.
- 21t is best used for static web pages, which do not need to be updated frequently.

For example, people who want to write about the history of a place and show photos of it can use static web pages. - مزايا تعلم HTML:

- أ من السهل نسبيًا تعلمها وتعمل على جميع المتصفحات.
- و من الأفضل استخدامها لصفحات الويب الثابتة، والتي لا تحتاج إلى التحديث بشكل متكور. على سبيل المثال، يمكن للأشخاص الذين يرغبون بالكتابة عن تاريخ مكان ما وإرفاق صور له بأن يستخدموا صفحات الويب الثابتة.

Dynamic Web Design Languages

- 1 Websites that show results according to each user's history and interests need their web pages to change all the time.
- 2 These websites use dynamic web design languages, such as JavaScript, PHP, or Python.
- 3 Dynamic coding languages let websites track a customer's orders and favorite products or update search results in a browser.
- 4 Kartik Sawhney programs in Python, but he has also programmed in C# and C++.
 - لغات تصميم الويب الديناميكية:
- 🚺 تحتاج مواقع الويب التي تعرض النتائج وفقًا لتاريخ كل مستخدم واهتماماته إلى تغيير صفحات الويب الخاصة بها طوال الوقت.
 - Python أ JavaScript أو PHP أو Python أو PHP أو Python أو PHP أو Python.
- قسمح لغات البرمجة الديناميكية لمواقع الويب بتنبع طلبات العملاء والمنتجات المفضلة أو تحديث نتائج البحث في المتصفح. 🗿 كارتيك ساوهني يبرمج بلغة Python، لكنه أيضًا برمج بلغة C # و C ++.

Exercises on Lesson

Choose the correct answer:

- 1 Mr. Kartik Sawhney is a. a National Geographic Explorer
- b. a computer expert

- c. both of them
- 2 Mr. Sawhney co-founded the platform to help people of determination. c. I-determination b. I-Stem
- a. l-access 3 Kartik Sawhney programs in; he has also programmed in
- C# and C++. b. Python
- c. Java
- a. HTML 4 Mr. Kartik Sawhney uses technology to empower
 - a. people of determination b. computer engineers c. students
- (5) Kartik Sawhney studied in his Bachelor's and Master's degrees.
 - b. Computer Science c. Science a. Computer Hardware
- ... is a website that helps blind and visually impaired people read digital texts.
 - a. The EKB
- b. Google
- c. Istemai.com
- 7 "The Miracle Child," Rania Saleh, is a talented with Down Syndrome.
 - a. doctor

- b. explorer
- c. programmer
- 8is a markup language that is used to create websites.
- a. HTML

- b. C++
- c. Swift
- 9 Mr. Kartik Sawhney holds a Master's degree in Computer Science from University.
- a. Cairo

- b. Stanford
- c. Chicago

a. JavaScript

- 10 I-Stem platform is supported by .
 - b. Microsoft a. National Geographic
- c. both of them

HIML IS ased to cicare		
a. static	b. dynamic	
c. both of the previous		
12 Kartik Sawhney's studie a. human-computer inte	s focused on raction	b. artificial intelligence
		and employment opportunities
for people of determina	b. I-Stem	c. Facebook
You can create a websit	e using	
a. programming langue	ages	
a. upload the text	b. convert th	ne text to audio
c. ask for help	Le into	information in the graph. c. text
allow the listener to ned	h video	c. text
a. audio 13is relative	ly easy to learn ar b. PHP	c. HTML
a. C++	:- doveloping	programs that
a. C++ 18 The Ministry of Manpo people of determination a. educate and train	101 mo jour	c. cure
The I-Stem platform incl	udes	opportunities for people of
determination. a. mentorship and empl		b. marriage
c. travel	imple(s) of dynami	c web design languages.

11 HTML is used to create web pages.

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c. Both a and b

	Put (/) or (X):
6	1) Kartik Sawhney is a computer expert.
1	2 Kartik Sawhney programs in HTML.
100	Mr. Sawhney develops apps to help people of determination.
8	4 Kartik Sawhney is a National Geographic Explorer.
0	5) There is one way to create websites using coding languages.
4	6 Kartik Sawhney earned his Master's degree from Harvard University.
	7) Taha Hussein Library has printers that convert printed text into audio.
1	indiconvert printed text into audio.
0	8 Mr. Sawhney develops an app to convert graphs into audio
	frequencies.
1	 Kartik Sawhney studies Computer Science and focuses on artificial intelligence.
1	10 "The Miracle Child" Rania Saleh is a programmer with Down Syndrome.
	11 HTML is difficult to learn as a programming language.
	12 The I-Stem platform includes employment opportunities for people of
	determination.
	13 Programmers, such as Mr. Sawhney, use platforms to create websites. ()
1	14 HTML is a programming language used to create websites using less codes.
	15 Dynamic web design languages include JavaScript, PHP and Python. ()
ÿ	16 HTML is used for dynamic web pages. ()
	17 Kartik Sawhney has received national and international awards for his great work.
0	18 Mr. Sawhney co-founded the I-Stem platform to help people of
- Common	determination worldwide.
1	19 There are several platforms that help in creating websites. ()
1000	20 Egypt launched several initiatives to empower people of determination and create job opportunities for them.

Explorer in Action 6-

- 21 Kartik Sawhney is a computer expert who uses technology to teach Computer Science.
- 22 HTML doesn't run on all browsers.
- 23 Egypt offers scholarships and special opportunities to talented people.
- 24 Mr. Sawhney develops apps to help blind and visually impaired people.
- 25 Istemai.com is a website that helps blind and visually impaired people read texts.
- 26 The I-Stem platform works with governments and technical universities to support people of determination.
- The Ministry of Manpower is developing programs that prepare people of determination for the job market.
- Complete the following sentences using the words between the brackets:

(Screen readers - I-Stem - static - dynamic - artificial intelligence)

- HTML is used for creating web pages.
- 3 convert digital texts to audio.
- Mr. Sawhney co-founded the platform.
- (5) Python is a programming language used to createwell pages.



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Lesson 2

Computer Network Devices

Networks

>>> They are groups of people, or things that are connected to each other for a common purpose. • نُمثُن مجموعة من الأشخاص أو الأشياء المرتبطة بعضها ببعض لهدف مشترك.



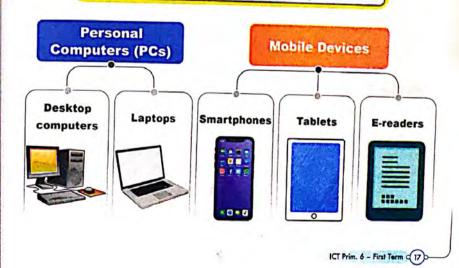
Computers

>> They are electronic devices that create, process, and store information.

· أجهزة الكمبيوتر أجهزة إلكترونية تُتشئ المعلومات وتُعالجها وتُخَزُّنها.



Different Types of Computers



Role of ICT in Our Life

>> Computer networks connect computers with each other to share important information and data.

تربط شبكة الكمبيوتر أجهزة الكمبيوتر ببعضها البعض لمشاركة المعلومات والبيانات المهمة.



معلومات توضيحية إضافية خارج الكتاب المدرسي

Smartphones, tablets, and e-readers are all types of computers. They all have the same basic components as a desktop or laptop computer, such as a central processing unit (CPU), memory, and storage. They also run software programs, just like traditional computers.

Making Connections

>> There are two main ways to connect computers to a network: Wired and Wireless.

Wired Networks

 They use physical wirings and cables, which are plugged into holes on devices, called ports. تستخدم الأسلاك والكابلات التي يتم توصيلها بفتحات في الأجهزة تُسمى المنافذ.

Wireless Networks

• They connect devices without wirings by using radio waves (wireless or Wi-Fi).

تقوم بتوصيل الأجهزة بدون أسلاك باستخدام موجات الراديو (لاسلكية أو Wi-Fi).

Ports

- >> They are holes (physical connectors) on devices where physical wirings and cables are plugged in.
- >> They are parts of a computing device available for connection with input and output devices.



هي فتحات في الأجهزة حيث يتم توصيل الأسلاك والكابلات.

هي أجزاء من جهاز كمبيوتر متاحة للاتصال بوحدات الإدخال والإخراج.

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Network Devices

>> Computers need different network connection devices to transfer data.

Server

-) It's a computer which provides services to other computers.
- >> It has large amounts of data storage that exist either as hardware or on the Internet.



. كمبيوتر يُوفُر خدمات الجهزة كمبيوتر أخرى، وتحوي كميات كبيرة من البيانات المخزَّنة، إمَّا على أجهزة أو على الإنترنت.

Modem

- >> It's a device that connects a local area network (LAN) to the Internet.
- >> It converts the signal from the Internet service provider (ISP) and transforms the signal into a digital signal that can be read by devices.
 - . هو جهاز بصل شبكة محلية (LAN) بالإنترنت.
 - . يُحوِّل الإشارة من مزوِّد خدمة الإنترنت (ISP) إلى إشارة رقمية يمكن للأجهزة التعرُّف عليها.

Hub

>> It allows wired devices to connect to a network and pass information to all the devices on that network.



- >> This can make it very slow, as there is a lot of information moving ground.
- و تتبح للأحهزة السلكية الاتصال بشبكة ما ونقل المعلومات إلى جميع الأجهزة الموجودة على ثلك الشبكة، وهذا يجعلها بطيئة حدًا؛ نظرًا لوحود الكثير من المعلومات المتبادلة.

Switches

>> They work in a similar way to a hub, but they can send data to a specific device over a network, which helps make connections easier and faster.



. تعمل بطريقة مشابهة لـ Hub، لكن يمكنها إرسال بيانات إلى جهاز معيِّن عبر شبكة؛ وذلك يساعد في تيسير التواصل

Theme (



>> It connects a modem to different networks.

، يعمل الراوتر بمثابة بوابة (Gateway)، فهو يربط بين المودم ومختلف الشيكات.

NOTES

- Hubs and switches are both network devices that connect multiple devices together.
- Switches are intelligent, but hubs are unintelligent.

Exercises Info

Switches are intelligent because...

- 1) They send data to only the intended (specific) device.
- 2 They can perform other tasks, such as Quality of Service (QoS), and security features to improve network performance.
 - 1 يرسلون البيانات إلى الجهاز المقصود (المحدد) فقط.
 - ② يمكنهم أداء مهام أخرى مثل: جودة الخدمة (QoS)، وميزات الأمان لتحسين أداء الشبكة.

Hubs are unintelligent because...

- 1) They send data to all connected devices, whether the device needs the data or not.
- 2 They don't perform any additional tasks to improve network performance.
- 1 يرسلون البيانات إلى جميع الأجهزة المتصلة، سواء كان الجهاز بحاجة إلى البيانات أم لا.
 - لا يؤدون أي مهام إضافية لتحسين أداء الشبكة.

Test Yourself

Complete the following:

-connects your device to the Internet via a cable or Wi-Fi.
- send data to all the devices on that network.
- pass data to a specific device over a network.
- are intelligent, but are unintelligent devices.

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Artificial Intelligence (AI)

>> It is a machine's intelligence that can be used to solve problems. الذكاء الاصطناعي (AI): هو ذكاء آلة يمكن استخدامه لحل الشكلات.

Examples of AI on your devices

Navigation

Voice recognition

Virtual assistants

Holograms

Computer Network Devices

من أمثلة الذكاء الاصطناعي (AI) على أجهزتك: الملاحة، والتعرُّف على الصوت، والمساعد الافتراضي، والهولوغرامات.

>> AI makes it possible for your phone or laptop to create holograms.

• الذكاء الاصطناعي يسمح لهاتفك أو جهاز الكمبيوتر الخاص بك بإنشاء الهولوغرامات.

It is a 3-dimensional (3D) image that you can see Hologram • without the use of special glasses or equipment.

هي صورة ثلاثية الأبعاد بمكتك رؤيتها من دون نظارات مميزة أو معدات.

- >> If you look at a regular 3D image without special 3D glasses, it will appear as a 2D image without any depth.
- >> Holographic images are becoming increasingly popular, used by educators teaching virtually and in advanced gaming systems.
- · إذا نظرت إلى صورة عادية ثلاثية الأبعاد بدون نظارات ثلاثية الأبعاد، فستظهر كصورة تثاثية الأبعاد بدون أي عمق. • تزداد الصور الهولوغرافية شهرة؛ إذ يستخدمها المدرسون الذين يعطون دروسًا افتراضية، وهي شائعة الاستخدام في أنظمة

Explanatory Anformation

معلومات توضيحية إضافية خارج الكتاب المدرسي

- Navigation: Al is used in navigation apps to help you find your way around and suggest alternative routes, as in Google Maps.
- Voice recognition: Al is used in voice recognition software to understand what you are saying, recognize your voice, and respond to your commands as in Alexa.
- Virtual assistants: Virtual assistants, such as chatbots, use AI to provide personalized assistance and support to users. They can answer questions, provide recommendations, and perform tasks based on the user requests.

Exerciseson



Choose the correct answer:

1	are a group of people or things that are connected to each
other.	

b.	1
	b.

c. Hubs Vetworks

2		are	electronic	devices	that	create,	process,	and	store
	information								

a. Computers

b. Routers

c. Switches

is/are a machine's intelligence that can be used to solve problems.

a. Artificial intelligence

b. Holograms

c. Switches

Hubs and are both network devices that connect multiple devices together.

a. servers

b. switches

c. Wi-Fi

3are computers that have large amounts of data storage.

a. Switches

b. Servers

c. Hubs

6 The data storage for a server can exist on

a. a physical hardware

b. the Internet c. both of them

A 3D image that you can see without the use of special glasses is called

a. artificial intelligence

b. hologram

c. navigation

8 Computer networks are used to information and data.

a. create

b. delete

c. share

(9) A computer which provides services to other computers is called a

a. server

b. network

c. cloud

10networks connect devices using radio waves.

a. Wired

b. Wireless

c. Both a and b

11 Wired networks connect devices using a. Wi-Fi b. radio waves c. cables makes it possible for your phone or laptop to create a. Artificial intelligence b. Wi-Fi c. Bluetooth are intelligent devices that pass information to a specific device over a network a. Switches b. Hubs c. Modems 14 are holes on devices where physical cables are plugged a. Ports b. Modems c. Switches 15is a device that connects a local area network (LAN) to the Internet a. Artificial intelligence b. A modem c. A server 16 A works as a gateway and connects a modem to different networks. a. switch b. hub c. router 17 are parts of a computing device available for connections with input and output devices. a. Cables b. Modems c. Ports 18is/are used by online educators and are also commonly used in advanced gaming systems. a. Zoom b. WhatsApp c. Holograms 19 A converts the signal from the Internet service provider (ISP) into a digital signal. a. modem b. router c. switch 20 connect devices to a network and send data to all the devices on that network. a. Switches b. Hubs c. Modems 21 Navigation, voice recognition, and virtual assistants are examples of

b. holograms

..... on your phone. a. artificial intelligence

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ICT Prim. 6 - First Term (23)

c. switches

Role of ICT in Our Life

4	Put	(1)	or	(X)
7				

- (1) Computers come in a variety of forms, including smartphones and
- 2 Networks are groups of people or things that are connected to each
- (3) A wireless network connects devices with physical wiring and cables. (
- There is only one way to connect computers to a network: using cables.
- (5) Computers don't need network connection devices to transfer data.
- 6 Artificial intelligence allows your device to create holograms.
- Thubs are intelligent devices, but switches are unintelligent.
- 8 Hubs allow wireless devices to connect to a network.
- A modem is a device that converts the signal from an ISP into a digital signal.
- 10 Routers are electronic devices that create, process, and store information.
- 11 Hubs can cause slow connections because they send data to all devices on the network.
- 12 A regular 3D image will appear as a 2D image without 3D glasses.
- Ports are holes on devices where physical wirings are plugged in.
- 14 Hubs send data to a specific device on the network.
- 15 Wired networks use physical cables, which are plugged into holes on the devices called ports.
- 16 Switches direct data to specific devices, making connections easier and faster.
- 17 Holograms are 2D images that you can see without the use of special equipment.
- 18 Artificial intelligence (Al) is a machine's intelligence that can be used to solve problems.

Complete the following sentences using the words between the brackets:

19 Servers are computers which provide services to other computers.

11 Voice recognition, and virtual assistants are examples of AI on your

Holographic images are used by online educators and are popularly

(unintelligent - router - specific - Holograms - Al)

1 Holograms can be created using

Servers have limited amounts of data storage.

used in advanced gaming systems.

- 2) Switches send data to a device on the network.
- A works as a gateway to connect devices to the Internet.
- (4) Hubs are devices.

device.

are 3D images that can be seen without the use of special glasses.

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 A router	a. is a computer which stores large amounts of data.	
2 A server	b. passes information to all the devices on the network.	
3 A switch	c. are holes on devices where cables are plugged in.	
4 A hub	d. is a gateway that connects a modem to different networks.	
Ports e. is an intelligent device that sends data to a specific on the network.		

Read the sentences and name the device:

This item	What am 1?
① connects a network to another network. You need it to connect any device to the Internet.	
2 sends data to a specific device over a notwork.	
3 sends data to all wired devices connected to it.	
is the part of a computing device available for connection with input (e.g., a keyboard, or a mouse) and output devices (e.g., speakers, a printer).	
5 is a computer which provides services to other computers. There are many different types, but a common function is to store audio files, video files, documents, and many other file types.	
6 allow wired devices to connect to a network and pass information to all the devices on that network.	

Think about the network equipment you will need for the following scenarios and create a computer network for each one. Draw and label the networks.

Hub Modem Network cable Router Server Switch

- 1 Fares wants to connect his laptop to his parent's desktop computer.
- 2 Mrs. Gamal's ICT classroom has ten PCs and wants everyone to be able to access all files, even when one computer is turned off.
- Severyone in Mostafa's football team needs to access the Internet to play online multi-player football games.

Lesson 3

Futuristic Technology

Augmented reality, virtual reality, and artificial intelligence (AI) feel futuristic, but they are already being used in education and everyday life. ويدو أن الواقع المُعزَرُ (AR) والواقع الافتراضي (VR) والذكاء الاصطناعي (AI) أنواع من التكنولوجيا المستقبلية، لكن يتم استخدامها بالفعل في التعليم والحياة اليومية.

Augmented Reality (AR)

- Augmented reality (AR) combines the real world with a virtual world by adding computer-generated images.
- This can be done through the camera of a smartphone or a tablet and will show a 3D model of what looks like the real world.

 بجمم الواقع المُعزَّرُ بين العالم الحقيقي والواقع الاعتراضي بإضافة صور مُولِّدة بالكمبيوتر.
- يمكن فعل ذلك بواسطة كاميرا الهاتف الذكي أو جهاز لوحي، وهذا سيعرض نموذجًا ثلاثي الأبعاد لما يشبه العالم الحقيقي.

For example

- In a math class, students can use their smartphone camera to project 3D images of shapes like cubes or cylinders onto a flat surface, making it appear as if the shapes are in front of them.
- In a science class, students can use a sky map app to point at the night sky and see a digital layer of labeled stars, planets, and nebulae.
- AR helps students become active participants in learning and makes learning more memorable.





- فعل سبيل المثال: في حصة الرياضيات، يمكن للطلاب استخدام كاميرا هواتفهم الذكية لعرض صور ثلاثية الأبعاد الأشكال مثل المكعبات أو الأسطوانات على سطح مسطح؛ مما يجعلها تبدو وكأنها أمامهم.
- . ويمكن للتلاميذ في حصة العلوم أيضًا استخدام تطبيق الخرائط السماوية؛ لتوجيه الهاتف إلى السماء ليلًا ورؤية طبقة رقمية من النجوم والكواكب والسُّدُم.
 - يساعد الواقع المُعزَّز التلاميذ ليصبحوا مشاركين نشطين في التعلُّم، ويجعل التعلُّم لا يُنسى.

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Explanatory Information

معلومات توضيحية إضافية خارج الكتاب المدرسي

- Augmented reality (AR) is a technology that adds digital images or information to the real world around you.
- For example, you can see a dinosaur walking around your living room, or the names of all the stars in the night sky.
- Another example is the game Pokémon Go, where you can catch Pokémon that appears in the real world through your phone's camera. - That's AR! It's like adding a layer of fun and imagination to the real world.

 - · AR works by using a device, such as a smartphone or tablet, to scan the real world. The device then uses this information to overlay digital information on top of the real world.

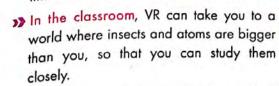
Virtual Reality (VR)

reality (VR)

It is a simulated 3D environment that allows users to explore and interact with the surroundings as if they were in reality. الواقع الافتراضي بيئة تخيلية ثلاثية الأبعاد تسمح للمُستخوِمين باستكشاف محيطهم والتفاعُل معه وكأنَّه حقيقة.



To experience VR, users often wear a VR headset that blocks out the real world and provides 360-degree views that immerse the user in another world.





Futuristic Technology

- >> It can take you to a museum thousands of miles away or to a historical site hundreds of years ago.
- A cardboard VR headset is an inexpensive way to experience VR using almost any smartphone.

NOTE:

 You can use the Egyptian Knowledge Bank to locate websites that include AR and VR experiences in Egypt.

- لتجربة الواقع الافتراضى، يرتدى المستخدمون غالبًا وسماعة رأس VR»؛ إذ تحجب عنهم الحياة الواقعية، وتوفر لهم إطلالات يزاوية ٢٦٠ درجة تجعل الستخدم ينغمس في عالم آخر.
- أما في غرفة الفصل، فيمكن أن يأخذك الواقع الافتراضي إلى عالم حيث الحشرات أو الذرات أكبر منك حجمًا؛ لتتمكّن من دراستها بعناية.
 - ممكن أيضًا من خلاله أن تزور متحفًا ببعد عنك آلاف الأميال، أو يأخذك إلى موقع أثرى قديم يعود لمئات السنين.
- إن «سماعة رأس VR» المصنوعة من الورق اللُّقوِّي، من الأدوات الرخيصة لتجربة الواقع الافتراضي، ويمكن استخدامها مع معظم أنواع الهواتف الذكية.





Explanatory Information

معلومات توضيحية إضافية خارج الكتاب المدرسي

An example of virtual reality (VR): Imagine you're studying ancient Egypt. With VR, you can feel like you're actually there in the Pyramids! You can see everything, like you're really inside the Pyramids. You can even hear sounds and feel like you're really there!

- VR is like playing a video game, but instead of just watching the screen, you can feel like you're really inside the game.
- VR works by using special equipment like a headset and gloves to see, hear, and touch things in this virtual world.

Artificial Intelligence (AI)

- >> It is the ability of a machine, such as a computer, to think and learn.
- >> A computer learns by analyzing the provided examples.
 - . الذكاء الاصطناعي هو قدرة آلة مثل الكمبيوتر على التفكير والتعلم.
 - . يتعلم الكمبيوتر من خلال تحليل الأمثلة المتوفرة له.

Example on using Al:

- A smartphone or email program predicts the next word you will type learns from the words you have typed before.
- 2 Al is used to unlock your phone with facial recognition.
- 3 Al is also used to personalize social media content and search results.
- Al runs in the background of programs, doing things such as:

 a. Filtering spam mail
 - b. Matching a passenger with an available driver
- الهاتف الذكي أو برنامج البريد الإلكتروني يتنبأ بالكلمة التالية التي ستكتبها، حيث يتعلم من الكلمات التي كتبتها سابقًا.
 - أيستخدم الذكاء الاصطناعي لإلغاء القفل وفتح هاتفك من خلال نظام التعرُّف على الأوجه.
 - ويُستخدم أيضًا لتخصيص محتوى الوسائط الاجتماعية ونتائج البحث.

يعمل الذكاء الاصطناعي في خلفية البرامج، وينجز أمورًا مثل تصفية الرسائل الإلكترونية المزعجة أو مطابقة الراكب مع السائق المتوفر.







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How can futuristic technology improve education and life?

- Futuristic technologies can improve the lives of people of determination.
- >> For example:
 - Someone with a visual impairment can use AR to see their family members up close.
 - ② Disabled individuals can use virtual assistants powered by AI to accomplish everyday tasks, such as making phone calls and navigating their computer using their voice or sign language.
 - VR can also immerse able-bodied people in experiences that demonstrate the barriers disabled people face every day.



البومية؟ كيف يمكن للتكنولوجيا المستقبلية تحسين التعليم والحياة البومية؟

- يمكن للتكنولوجيا المستقبلية تحسين حياة الأشخاص ذوى الهمم، فعلى سبيل المثال:
- 1 يستطيع شخص ضعيف البصر أن يستخدم الواقع المُعزِّز (AR)؛ ليرى أفراد أسرته عن قرب.
- يمكن للأشخاص ذوي الهمم استخدام مساعدين افتراضيين مدعومين بالذكاء الاصطناعي لإنجاز المهام اليومية،
 مثل الاتصالات الهانفية واستخدام أجهزة الكمبيوتر الخاصة بهم باستخدام أصواتهم أو لغة الإشارة.
- يمكن للواقع الاقتراضي أيضًا أن يغمر الأشخاص الأصحاء في تجارب تُبين لهم العراقيل التي يواجهها ذوو الهمم يوميًا.

ICT Prim. 6 - First Term 0(31)

1	
6	Choose the correct answer:
20.00	1 combines the real world with a virtual world by adding
100	computer-generated images.
TOTAL .	a. Virtual reality b. Augmented reality c. Assistive technology
Carried of	is a simulated 3D environment that allows users to explore
200	and interact with the surroundings as if they were in reality.
	a. Virtual reality b. Artificial intelligence c. Assistive technology
	3is the ability of a machine such, as a computer, to think
	and learn.
	a. Virtual reality b. Augmented reality c. Artificial Intelligence
	Visually impaired people can use to see their family
	members up close.
Š	a. artificial intelligence b. augmented reality c. hearing aids
Š	(5) To experience virtual reality, users often wear
	a. 3D glasses b. VR headsets c. AR headsets
	6 Augmented reality can be done using the of your
2	smartphone.
	a. microphone b. speaker c. camera
	7 A VR headset blocks out theworld and provides 360-degree
	views.
	a. real b. virtual c. both of the previous
i i	8 Facial recognition is a feature used to unlock your phone using
A. JAN	
Trans.	a. artificial intelligence b. virtual reality c. augmented reality
C. Perron	Augmented reality shows a/an model of what looks like
	the real world.

b. 3D

c. invisible

	10 A cardboard VR headset is a/anwo	by to experience VR	(3
		difficult	
	ff Students can use a app to point at the digital layer of labeled stars, planets, and nebulae	night sky and see o	2
	a. Google Maps b. Vlaby c.	Sky Map	
	12 A computer learns by the provided e.	xamples.	
	a. analyzing b. storing c.	saving	
	Predicting the next word you will type using you example of	ur smartphone is a	n
	a. virtual reality b. augmented reality c.	artificial intelligence	e
	 Disabled people can use virtual assistants powered do everyday tasks, such as navigating their computa. a. artificial intelligence b. augmented reality 	er.	lo
	Put (✓) or (X):		
	A computer learns by analyzing the provided exam	ples. ()
	The Uber app uses artificial intelligence to match ride drivers.	rs with available	
		(40))
	3 Augmented reality, virtual reality, and artificial intelliconsidered futuristic technologies.	gence (AI) are)
١	4 Futuristic technologies can't improve the lives of peop	le of determination	
		()
	(5) Artificial intelligence can run in the background of p	rograms to filter	
	spam mail.	()	
	6 There is no difference between augmented reality and	virtual reality. ()	
	Virtual reality is a simulated 2D environment that allow	ws users to interact	-
	with the surroundings.	()	
	8 A VR headset blocks out the real world, and provides 360	O-degree views. ()	
1			

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a. 2D

-o Role of ICT in Our Life

Ĉ

Theme

- (9) AR combines the real and virtual worlds to show 3D models that look real.
- 10 Al is used to unlock your phone with facial recognition.
- 11 Augmented reality helps students become active participants in learning
- 12 The ability of a machine, such as a computer, to think and learn is called AR.
- 14 To experience virtual reality, users often wear a AR headset.
- 15 Virtual reality allows you to explore museums from all over the world without leaving your home.
- Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 VR	 a. includes AI, AR and VR. b. is the ability of a machine to think and learn. c. can be used to do everyday tasks, such as making phone calls. d. is a simulated 3D environment that allows users to interact with the surroundings. 	
② AR		
(3) AI		
Virtual assistants		
Futuristic technology	e. adds computer-generated images to show a 3D mode of what looks like the real world.	

13 A cardboard VR headset is an expensive way to experience virtual reality.

Cutting-edge technology

>> It's the newest and most advanced version of a service or product. · التكنولوجيا المُتطورة: هي الإصدار الأحدث والأكثر تقدمًا من خدمة أو منتج.

Reliable Cutting-Edge Technology

Evaluating Cutting-Edge

Technology

Assistive technology

Lesson

- >>> It helps people of determination with tasks they find challenging, such as:
 - Screen magnification software
 Hearing aids
- @ Programs that turn speech into text and text into speech • التكنولوجيا المساعدة: تساعد الأشخاص ذوى الهمم في أداء المهام التي يجدونها صعبة، مثل: برمجيات تكبير الشاشة، والسماعات الطبية، والبرامج التي تُحوِّل الكلام إلى نص والنص إلى صوت مسموع.

Cutting-Edge Technology Examples

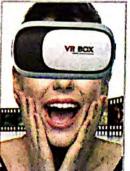
Artificial Intelligence (AI)



Augmented Reality



Virtual Reality



10

Theme

>>> These changes are emerging in new and exciting ways to help in education, improving lives, and inclusion in society, such as the

User experiences:

assistive technology of smartgloves. They empower deaf people to translate their They describe how people use and interact with a product and how they evaluate their experiences.

User experience is often divided into different areas and can be positive or negative.

• تجربة السُنخدِم تصف كيفية استخدام الأشخاص للمنتج وتفاعلهم معه وكيفية تقييمهم لتجاربهم. غالبًا ما تُقسّم تجربة المُستخدِم إلى مجالات مختلفة، ويمكن أن تكون إيجابية أو سلبية.

Smartgloves

signs in real time to spoken or text output. القفازات الذكية تُمكِّن الأشخاص الصم من ترجمة إشاراتهم فوريًّا إلى مُخرُج نصى أو منطوق.

>> It is important to be objective and evaluate these new technologies that are pushing the frontiers of knowledge.

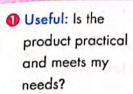
>> By evaluating, society as a whole is better informed to make decisions regarding the use and development of such technologies.

· أحدثت التكنولوجيا المتطورة تغييرات في الحياة بطُرُق لم يكن من المكن تصوُّرها حتى قبل عقد من الزمان. تظهر هذه التغييرات بطُرُق جديدة ومثيرة للمساعدة في التعليم، وكذلك لتحسين الحياة والاندماج في المجتمع، مثل القفازات الذكية من فئة التكنولوجيا المساعدة.

 من المهم أن نُقيِّم هذه التكنولوجيات الجديدة بموضوعية وعقلانية؛ وذلك لأنها تُوسِّع آفاق المعرفة باستمرار. من خلال التقييم، يكون المجتمع ككل على دراية أفضل لاتخاذ القرارات المتعلقة باستخدام هذه التكنولوجيات وتطويرها.

>> There are different evaluation tools we can use to evaluate these new technologies.

7 factors that affect UX:



Q Usable: Is the product easy to use and understand?

@ Findable: If there



Evaluating Cutting-Edge Technology

is an issue with the product, can I find the solution?

- 4 Credible: Are the company and its products trustworthy?
- 6 Accessible: Is the product accessible for people with disabilities?
- 6 Desirable: Is the product pleasant to look at and interact with?
- Valuable: Does the product improve my life or help me learn?

Explanatory Alnformation

معلومات توضيحية إضافية خارج الكتاب المدرسي

Assistive technology smartgloves are devices that use sensors to track the movements of the wearer's hands. These movements are then sent to a computer or smartphone, which uses artificial intelligence (Al) to translate them into spoken or text output.

This allows deaf people to communicate with others who do not know sign language.

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Meeting Needs

- >>> User experience is interlinked with the development of products and services.
- >> The goal of cutting-edge assistive technology, which comes in many forms, is always the same:
 - 1 To improve someone's independence.
 - Consequently, to be included in the society.

١٦ تلبية الإحتياجات:

- و ترتبط تجربة الستخدم بتطوير المنتجات والخدمات.
- ، الهدف من التكنولوجيا المُساعِدة المتطوَّرة، والتي تأتي في أشكال عديدة، هو دائمًا نفس الشيء: تحسين استقلالية شخص ما؛ وبالتالي اندماجه في المجتمع.



How to choose the best assistive technology

- >> There are several steps and considerations that include:
 - ① Awareness of the person's abilities and challenges
 - Identifying and defining a specific need

🕜 تحديد حاجة معينة وتعريفها.

- 3 Brainstorming possible cutting-edge assistive technology products
- Designing and testing
- 6 Reviewing what works well, what doesn't work as well, and adapting to meet the user's needs



يوجد خطوات واعتبارات مُتعدّدة تشمل ما يلي:

- 1 الوعى بقدرات الشخص وتحدُّماته.
- التفكير في أكثر منتجات التكنولوجيا المساعدة تطورًا.
- 🕣 إعادة النظر في منتجات التكنولوجيا المساعدة التي تعمل بشكل جبُّد، والتي لا تعمل بشكل جبُّد، والتعديل فيها؛ لتتلاءم مع حاجات المُستخدم.

Exercises on Lesson 4



1) The newest and most adv	anced version of a se	ervice or product is calle
a. assistive	b. cutting-edge	c. virtual
2 technology find challenging.	helps people of dete	ermination with tasks the
a. Assistive	b. Cutting-edge	c. Virtual
Screen magnification soft technology.	ware and hearing a	ids are types of
a. futuristic	b. cutting-edge	c. assistive
they evaluate their experie	ences.	
a. Futuristic technology		
 Artificial intelligence, augr oftechnolog 	mented reality, and vi gy.	irtual reality are exampl
a. assistive	b. cutting-edge	c. Microsoft
6 empower de text output.	eaf people to translat	e their signs to spoken o
a. Hearing aids	b. Smart glasses	c. Smartgloves
If the product is practical experience will be	and meets the cus	_
a. positive	b. negative	c. neutral
Complicated and hard-to-us		
a. positive	b. negative	c. neutral
Put (✓) or (X):		

2 Smartgloves are a type of assistive technology.

3 Artificial intelligence is one of the cutting-edge technologies.

Programs that convert speech to text and vice versa are a type of assistive technology.

(5) User experiences describe how people use a product and evaluate their experiences.

6 A user experience is always positive.

Credibility and accessibility are factors that affect user experiences.

Smartgloves don't empower people of determination.

The development of products and services doesn't affect the user experience.

One of the goals of assistive technology is to improve someone's independence.

1 The best assistive technology for a person depends on their individual abilities and challenges.

Assistive technology helps people of determination to be included in the society.

(3) If the product is pleasant to look at and interact with, this makes the user experience negative.

Complete the following sentences using the words between the brackets:

(Cutting-edge technology - User experiences - Smartgloves - Assistive technology - Hearing aids)

1 translate sign language to speech or text.

2 helps people of determination with tasks they find challenging.

3is/are how people feel about using a product.

is/are the latest and most advanced technology.

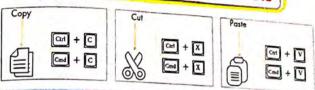
5is/are a type of assistive technology that can help people with hearing troubles.

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Lesson 5

Digital Research Skills

Useful Digital Search Tools



OS	and Copy	Cut	Paste
• Windows	• Ctrl + C	• Ctrl + X	• Ctrl + V
• MacOS	• Cmd + C	• Cmd + X	• Cmd + V

Copy, cut, and paste are some of the most commonly used word processing commands.

>> They are very useful when copying, cutting, or pasting:

Text • Images • Information for citing sources

• آوامر النسخ والقص واللصق هي بعض أوامر معالجة الكلمات الأكثر استخدامًا، وتكون مفيدة جدًّا عند نسخ أو قص أو لصق من أو الصور أو الاستشهاد بالمسادر.



All of these tools are used to search for information, but the results will be different.

>>> Knowing what results you need helps to inform which search tool(s) you could use.

 أدوات البحث الرقعية تنضفُن: البحث عبر الإنترنت، ومُحرّكات البحث المتخصصة، والمكتبات الإلكترونية الموثوقة والمتاحة عبر الإنترنت.

 تساعد الأدوات في البحث عن المعلومات المطلوبة، لكنَّ النتاشج الصادرة عن كلَّ منها تكون مختلفة: ولذلك تساعد معرفة النتائج التي تحتاج إليها في تحديد أداة/أدوات البحث التي يمكنك استخدامها.

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Search Engines



>>> Search engines help people search internet websites based on keywords and phrases.

>>> They are user-friendly, very fast, and often give many results.

>>> Be sure that the content you select is credible, accurate, and unbiased

>> Examples: Google, Bing

. تسأعد مُحرِّكات البحث الأشخاص على البحث في مواقع الإنترنت بناءً على الكلمات والعبارات الرئيسة.

• وهي سهلة الاستخدام وسريعة جدًّا، وغالبًا ما تُظهر العديد من النتائج. • تأكد من أن المحتوى الذي تختاره موثوق ودقيق وغير منحاز.

Databases

Databases

>> They are collections of information which are typically stored on a computer system and can be accessed for free through a school or library.

. قواعد البيانات عبارة عن مجموعات من المعلومات، تُخزِّن عادةً في نظام حاسوبي، ويمكن الوصول إليها مجانًا من خلال

>> A database is a good place to search for information from journals, newspapers, and reference books.

قاعدة البيانات مكان جيَّد للبحث عن المعلومات من المجلات والصحف والكتب الرجعية.



General Database

• It covers many subjects. • Ex: EKB Note: A search for 'self-driving car' on the EKB won't provide a lot of results, but the results will be credible and accurate.

· قاعدة البيانات العامة تتناول العديد من الموضوعات مثل بنك المعرفة

طحه ظة: لن يُوفِّر البحث عن «سيارات ذاتية القيادة» على موقع بنك المعرفة المصرى الكثير من النتائج، ولكنها ستكون موثوقة ودقيقة.

Subject Database

- It covers only one subject, such as business or law.
- · Any results will be specific to your topic.

واعدة البيانات المتخصصة تتناول موضوعًا واحدًا فقط، مثل ريادة الأعمال أو

القانون، وأي من نتائجها ستكون محددة لموضوع بحثك.

Library Catalogs

Library catalog

) It is a database that includes all the items owned by a library. فهرس المكتبة هو قاعدة بيانات تضم كل المصادر والعناصر التي تحتويها المكتبة.

A library catalog search may include recently published books, including e-books with the most recent research about a subject.

قد يتضمُن البحث في فهرس المكتبة كتبًا منشورة حديثًا، بما في ذلك الكتب الإلكترونية التي تحوي أحدث الأبحاث في

Conducting a Database Search

- When you search any database:
- 1) Use a keyword search.
- Review the results for subject headings and search again with those terms.
- 1 You can use other database fields, such as author or journal title to narrow a search.
- >> Limiting a search to the last few years will help you find the most up-to-date research.
 - عند البحث في أي قاعدة بدانات، استخدم البحث بالكلمات المفتاحية.
 - أعد النظر في نتائج عناوين الموضوع، وابحث مجدِّدًا باستخدام هذه المصطلحات.
 - · بمكنك استخدام حقول أخرى متوفِّرة في قاعدة البيانات، مثل: اسم المؤلِّف أو عنوان المجلة؛ لتضييق نطاق السحث.
 - · سساعدك حدُ البحث بالسنوات القليلة الماضية في العثور على أحدث الأبحاث.



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Digital Research Skills

Exercises on Lesson 5

4			
Į	Choose the correct		DE LE LE LE RICE
	1 EKB is a	source of information.	11.004
	a. credible	b. unreliable	c. biasea
	2 You can use	to search on the Ir	nternet using keywords and
	phrases.		
	a. search engines	b. programing la	nguages
Ĭ	c. books		
	3) is/are co	ollections of information	on that are typically stored
	on a computer system.	more de la constante de la con	and the same of th
	a. Search results	b. Databases	c. Software
	4 The shortcut used in Wi	ndows to paste a text	or image is
	a. "Cmd + V"	b. "Ctrl + V"	c. "Ctrl + P"
	5 The keyboard shortcut	"Cmd + X" is used to	a text or an
	image in macOS.		and have some and
	а. сору	b. cut	c. paste
	6 You can use the shortcu	t "Ctrl + C" to	a text or an image
	in Windows.		
	а. сору	b. cut	c. paste
	7 When conducting a dig	ital search, make sure	the information you get is
	a. credible	b. biased	c, unreliable
1	8 is a database	which includes all the	items owned by a library.
-	a. EKB	b. A digital libra	ry c. A library catalog
-	9 The database of	covers only one subject	ct, such as business or law.
1	a. general	b subject	

	- h angina hal		Digital Research Skills
	Search engines help peo a. keywords	ple search online	based on
	u. Ko	D. Dhracos	
	£ EKB is an example of a subjects.	a d	atabase which covers many
	subjects. a. subject		overs many
į	Put (√) or (X):	b. general	c. network
	1 There is only one type of		1 1
	2 EKB is an example of a	subject database.	()
1	3 Databases can be acces	ssed for free through	gh a school or library.
	4 It is not important to cred	dit the source of in	nformation.
1	S All digital search tools g		
	6 It is recommended to use	e a keyword to cor	nduct a database search. ()
	A library catalog search	n doesn't include r	ecently published books. ()
	8 You can press "Ctrl + C"	" to cut a text or a	an image in Windows.
	The shortcut "Cmd + V" is		
	10 EKB is an inaccurate sou		
	11 Bing is a reliable databa	ase.	1 1
	12 Some Google search res	sults may be biase	ed. ()
	13 Limit your search to the l		Y Company of the Comp
	a database.		()
	14 Be sure the search result	t you select is cred	lible and accurate. ()
	15 Search engines are user-fri		
	16 A database is a good pla		
	newspapers, and books.		
	17 The shortcut "Cmd + X" is	s used to cut a text	or an image in Windows. ()
	18 The type of results you no		
	use.	icca iiii iicip joo	()

20 You can use other database fields, such as author or journal title, to narrow a search.

Complete the following sentences using the words between the brackets:

(library catalog - cut - keywords - subject database - EKB)

1 The shortcut "Ctrl + X" is used to a text in Windows.

2is an example of a general database which covers many subjects.

3 It is preferable to use to search for information on a database.

Acovers only one subject and any results will be specific to your topic.

5 A is a database which includes all the items owned by a library.



Mobile Devices

Types of Mobile Devices

Mobile devices include smartphones, tablets, and e-readers.

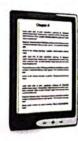
Smartphones and Tablets

- They surf the web and check emails, similar to PCs.
- They often have high-quality cameras, speakers, and screen resolution.
- تُستخدم الهواتف الذكية والتابلت في تصفُّح شبكة الإنترنت، والتحقُّق من البريد الإلكتروني مثل أجهزة الكمبيوتر الشخصية. وغالنًا ما تحترى على كاميرات وسماعات ودقَّة شاشة عالية الحودة.



E-readers

- They look like tablets, but are mainly used for reading books.
- الفارئات الإلكترونية تبدو مثل التابلت، ولكنُّها تُصنفذَم بشكل أساسي في قراءة الكتب.



Mobile devices features

-) These handheld computers are portable and can access the Internet.
- >> They can be held in landscape or portrait mode, laid flat, and connected to other devices.
- Many mobile devices function by touch.
 - تتميّز أجهزة الكمبيوتر الحمولة هذه بقابلية حملها وإمكانية اتصالها بشبكة الإنترنت.
 - ويمكن حملها في وضع أفقي أو عمودي أو وضعها بشكل مسطَّح، والاتصال بأجهزة أخرى. • تعمل العديد من الأجهزة المحمولة بتقنية اللمس..



 ϵ

Mobile devices and learning

- Mobile devices offer higher engagement levels for students and extend learning beyond the classroom, for example:
 - Oreating short videos or taking photos for projects.
 - Scanning QR codes to access content-related videos, audios, and texts created by the teacher, and the students themselves.
 - 6 Greater opportunities for collaboration by using online post-it walls, shared class forums, or group chats.
 - Listening to podcasts, reviews of video games, and accessina learning apps.

تتبح الأجهزة المحمولة مستويات مشاركة بمعدَّل أعلى للطلاب، وتوسع نطاق التعلُّم خارج الفصل الدراسي، على

- 🕦 انشاء مقاطع فيديو قصيرة أو التقاط صور للمشر وعات.
- ومسح رموز الاستجابة السريعة QR codes للوصول إلى الفيديو والمقاطع الصوتية والنصوص ذات الصلة بالمحتوى،
- 3 إناحة المزيد من الفرص للتعاون من خلال استخدام جدران نشر التعليقات عبر الإنترنت أو منتدبات الفصل المشتركة
- 🗿 الاستماع إلى المدوِّنات الصوتية (البودكاست) والحصول على التقييمات الخاصة بألعاب الفيديو والوصول إلى تطبيقات التعلُّم.

The challenges of using mobile devices

- >> Some people say that having such easy access to any information has decreased.
 - 1 Thinking skills 2 Social interaction
 - 8 People's attention span
- >> Being tempted to use the device for social or entertainment reasons is another possible issue.
- >> Small screens can make reading texts challenging and viewing complex graphics difficult.

ورى البعض أن سهولة الوصول إلى المعلومات قد قلُّل من مهارات التفكير والتفاعل الاجتماعي، ومن مدى فترة تركيز الناس، التعرُّض لإغراء استخدام الجهاز المحمول لأسباب اجتماعية أو ترفيهية، يُعَدُّ مشكلة أخرى مُحتمّلة.

• كما ممكن للشاشات الصغيرة أن تجعل قراءة النصوص ومشاهدة الرسومات البيانية المعقدة أمرًا صعبًا.





Explanatory Information معلومات توضيحية إضافية خارج الختاب المدرسي

- Online post-it walls are a great way to brainstorm ideas and collaborate
- They allow users to post sticky notes with their ideas, which can then be easily shared and edited by others. This makes it easy to keep track
- Google Keep and Evernote are examples of online post-it wall apps.

providing solutions with cutting-edge assistive technology

- Without cutting-edge assistive technology products and apps for tablets and smartphones, people of determination face challenges accessing education, healthcare, and employment.
- Cutting-edge assistive technology installed on mobile devices is providing new solutions.

For examples:

- 1 This technology can connect homebound individuals with their educational provider.
- A speech assistance app can help a non-verbal student participate in a class.
- 3 Assistive software on tablets and smartphones can help people of determination in the workplace to manage time and tasks.
- Essential future skills can be developed so that all citizens can use their mobile devices to access learning.
 - و من دون منتجات وتطبيقات التكنولوجيا المُساعدة المنط ورة المخصصة للأجهـزة اللوحية والهواتف الذكية، يواجــه ذوو الهم تحدُّيات في الحصول على التعليم والرعاية الصحية والتوظيف.
 - ثُونُر التكنولوجيا المُساعدة المتطورة المثبَّثة على الأجهزة المحمولة حلولًا جديدة. على سبيل المثال، يمكن لهذه التكنولوجيا ربط الأفراد المجبرين على البقاء في المنزل بمُقدِّم الخدمات التعليمية الخاص بهم.
 - و كما يمكن لتطبيقات المساعدة على الكلام مساعدة التلاميذ المصابين باضطراب التعلُّم غير اللفظيُّ في المشاركة داخل الفصل. • وتُعاون البرامج المساعدة المثبَّتة على الأجهزة اللوحية والهواتف الذكية الأشخاص ذوى الهمم على إدارة الوقت والمهام في
 - يمكن تطوير المهارات المستقبلية الأساسية؛ حتى يتمكِّن جميع المواطنين من استخدام أجهزتهم المحمولة للتعلم.



Exercises on Lesson 6

	the state of the s	The same of the sa
Choose the correct an	swer:	la de
include(s) sn	nartphones, tablets, and	e-readers.
- Assistive technology	b. Mobile devices	or i torn our devices
are used to	surf the web and check e	emails, like PCs.
a. Smartphones and table	ts b. Cameras and speaker	s c. Keyboards
3 You can scan QR codes to	access	
g text	b. video and audio	
E-reader is a mobile device	that is mainly used to	
a. read books	b. watch videos	c. check emais
Smartphones and tablets o	ften have	
a cameras	b. speakers	c. both of the previous
6app can help	a non-verbal student po	articipate in a class.
a. A screen magnification	b. A speech assistance	c. Zoom
Mobile devices can be used	d in mode(s), depending on the
required task.		
a. portrait	b. landscape	
Smartphones and tablets of	ten havequality	screen resolution.
a. high	b. low	c. normal
Mobile devices can help str	udents learn in more eng	gaging ways beyond
the classroom through activ	ities, such as	
a. listening to podcasts	b. scanning QR codes	c. both of the previous
10 You can use mobile devices	to scan	and access related
content.		
a PIN codes	b. QR codes	c. podcasts

put (/) or (x):		Mobile Devices
1 There is no difference 2 E-readers are a type of 3 Smartphones and table 4 E-readers often have h 5 Some people think the thinking skills. 6 Mobile devices can extend	ts are used to browse the we nigh-quality cameras and s at easy access to informati	eb and check emails. () speakers. () on may decrease
 7 It is difficult to create s 8 Modern mobile device 9 Small screens can male 10 E-readers are used to a 11 Mobile devices can be 12 Easy access to informate attention span. 13 Technology can help heroviders. 14 Assistive technology has 	short videos using mobile of es function by touch. ke viewing complex graph create graphs and videos. e held only in portrait mod ation using mobile devices nomebound individuals cor	devices. () ics difficult. () le. () has increased people's () nnect with education
Complete the follow	ving sentences using	the words between
1 are portabl 2 Scanninghel 3look like	lps students access information tablets, but are mainly us	scape or portrait mode. ation quickly and easily. ed for reading books.
A app co Online or collaboration between	n mobile devices provide	nt participate in a class. greater opportunities for

Mobile Operating Systems

Operating sustem (OS) It is the software that manages a computer's functions, such as memory, drives, printers, and other devices. يظام التشفيل: هو البرنامج الذي يدير وطائف الكمبيوتر مثل الذاكرة ومُحرُكات الأقراص والطابعات والأجهزة الأخرى،

- >> The operating system also manages accessible devices, such as screen readers and magnifiers.
- >> It runs a computer's software and hardware.
- >> It acts as a translator, allowing a user to communicate with the computer without knowing computer languages. نظام التشغيل يدير أيضًا الأجهزة المُساعِدة مثل قارئات ومكبَّرات الشاشة.

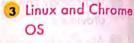
• كما أنه يدير برامج وأجهزة الكمبيوتر ويعمل مترجمًا، وهذا يُمكن المستخدم من التواصل مع الكمبيوتر من دون الحاجة إل

Computer Operating Systems

- >> Most computers come pre-loaded with an operating system, such as: و تأتى معظم أجهزة الكمبيوتر مُحمَّلة مسبقًا بنظام تشغيل مثل:
- Microsoft Windows
- · It's the most popular worldwide.
- · It's used on 75% of computers.



- · It runs on Apple computers.
- · It's used on 15% of the world market.



· It's used on about 2-3% of the market.





ÉiOS

Mobile Operating Systems

>> Mobile devices have mobile operating systems.

Android

- The most popular worldwide
- Used on 72% of the world market
- Open-source operating system

Apple iOS

- · Runs on iPhone
- Used on 27% of the world market
- Closed-source operating system

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Mobile Operating Systems

- Android uses open-source software, which means the programming code can be read or changed by anyone.
- Apple's iOS is closed, which means it can't be seen or changed by the public.
- Both Android and iOS perform the same basic functions, such as messaging, web access, video chat and touch functions,

أندرويد برنامج مفتوح المصدر: ما يعني أنه يمكن لأيُّ شخص قراءة شفرة البرمجة أو تغييرها.

- في حين لا يمكن لعامة الناس رؤية شفرة البرمجة الخاصة بنظام تشغيل Apple iOS المغلق أو تغييرها. و يؤدّي كل من نظام أندرويد ونظام تشغيل iOS الوظائف الأساسية نفسها؛ مثل: إرسال الرسائل، والاتصال بشبكة

الإنترنت، والدردشة عبر الفيديو، والعمل بخاصية اللمس،

Cutting-Edge Operating Systems

>> Other types of operating systems power (run) different types of cutting-edge technologies.

For example:

- 1 The Robot Operating System (ROS): is open-source software for building robot applications.
- There are multiple operating systems powering self-driving cars, including those developed by Apple, Microsoft, and Google, as well as individual car companies.

أنظمة التشفيل للتطورة:

- تُشغِّل أنواع أخرى من أنظمة التشغيل أنواعًا مختلفة من التكنولوجيات المتطوِّرة، على سبيل المثال:
 - نظام تشغيل الروبوت، وهو برنامج مفتوح الصدر لبناء تطبيقات الروبوت،
- · وهناك العديد من أنظمة التشغيل التي تُشغّل السيارات ذاتية القيادة، وتتضمُّن تلك التي طوّرتها شركات أبل، ومايكروسوفت وجوجل، وكذلك شركات السيارات الخاصة.



Programming Languages

Programming languages

Instructions for a computer are given in code.

لغات البرمجة تُعطى الأوامر لجهاز الكمبيوتر على هيئة شفرة.

- >> Over time, programming languages have evolved from simple machine language (binary) to high-level human-like languages.
- >> Computer languages often share similarities, so once you learn one, it is easier to learn others.
- >> Programmers choose a language based on the purpose.
- >> Programming languages are usually open source. Anyone can see, modify, or distribute the code.
- >> Programmers use Hyper Text Markup Language (HTML) to create web pages. . ويعرور الوقت، تطوُّرت لغات البرمجة من لغة الآلة البسيطة (النظام الثنائي) إل لغات عالية المستوى شبيهة باللغة التي يقهمها البشر. وغالبًا ما تتشابه لغات الكمبيوتر؛ لذلك بمجرد أن تتعلم لغة واحدة، يتبسّر لك تعلّم اللغات الأخرى، . يختار المبرمجون اللغة المناسبة بناءً على الهدف، وعادة ما تكون لغات البرمجة مقتوحة المسدر؛ حيث يمكن الئي شخص ، ذية الشغرة أو تعديلها أو توزيعها لإنشاء صفحات الويب.

HTML

- HTML is commonly chosen for website creation because it is easy to learn, use, and make changes.
- It allows creators to add elements such as texts, links, images, audios, and even videos to their web pages.
- It is compatible with all the major web browsers.
 - , يشيع اختيار HTML لإنشاء مواقع الويب؛ لأنها سهلة التعلم والاستخدام وإجراء التغييرات. , تسمح هذه اللغة للمبتكرين بإضافة عناصر مثل: النصوص، والروابط، والصور، والمقاطع الصونية، ومقاطع القيديو، إلى صفحات الويب الخاصة بهم، وهي ملائمة لكل مُنصفَّحات الويب الكبري.
- >> Most computers and apps function well regardless of the operating system and programming language used.
- >> You may develop preferences over time, but you're most likely to notice differences when you directly compare how a website or an app looks on different devices or on different operating systems.
 - . تعمل معظم أجهزة الكمبيوتر والتطبيقات بشكل جيِّد؛ بغض النظر عن نظام التشغيل ولغة البرمجة المُستخدمة. وبمرور الوقت، قد يصبح لديك تفضيلات، ولكن من المرجِّح أن تلاحظ اختلافات عندما تقارن بصورة مباشرة بين شكل موقع الكتروني أو تطبيق على الأجهزة المختلفة أو على أنظمة تشغيل مختلفة.

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EXercises on Lesson

The is the s	oftware that man	The state of the s
1) The is the s	rage b. operating s	s a computer's functions.
a. Android	b. macOS	puters worldwide is
a. Windows	b. Android	iles worldwide is
a, operating system	b. CPU	e and hardware.
6 Instructions for a compute	ter are given in the f	orm of a/an
a word file	b. code	c. audio
6 The allows of knowing computer lang	uages.	
a. operating system	b. hardware	c. compiler
7) is the mol	oile operating system	that runs on iPhone.
a. Android	b. iOS	c. Linux
(8) is an open	rating system for App	ple computers.
a. Windows	b. macOS	c. iOS
9 manages magnifiers.	accessible devices, s	such as screen readers and
a. Windows	b. Word	c. The hardware
10 MacOS is an operating :	system developed by	·
a. Microsoft		
11 Windows is an operating	system developed l	оу
a. Microsoft	b. Apple	

- Role of ICT in Our Life 12 There are many operating systems for computers, such as Windows and c. Linux b. Android a. iOS is an open-source operating system for mobile devices. c. macOS b. iOS a. Android is a closed-source operating system for mobile devices. c. Windows b. Apple iOS a. Android software means that the programming code can be read or changed by anyone. b. Closed-source c. Both of the previous a. Open-source 16is an open-source software for building robot applications. c. Android b. ROS a. iOS 17 Programming languages have evolved from to high-level languages. b. very high languages c. mild languages a. machine languages 18 One of the functions of mobile operating systems is c. both of the previous b. touch a. messaging

2	Put (/) or (X):		
	Most computers come preloaded with an operating system.	1	1
	2 Accessing the web is not one of the basic functions of operating sys	tem	15
	3 Android is an open-source operating system.	1	
ý	4 Linux is the most popular operating system all over the world.	(1
	5 HTML is commonly used to create web pages.	(1
	Operating systems manage software only.	(1
	The operating systems Android and iOS perform the same basic functions	ion	s.

(8) Windows is open-source software that can be edited by anyone.

Mobile Operating Systems

Programmers choose a language based on the purpose of the program.

Windows is an operating system used on 15% of computers.

Apple iOS is closed-source software which cannot be changed by the public.

The similarities between programming languages make them easy to learn.

Self-driving cars don't need operating systems to perform.

Programming languages are usually closed sources.

Closed-source software means the code can be read and changed by anyone.

HTML isn't compatible with all the major web browsers.

There are multiple operating systems powering self-driving cars.

Choose from column (A) what suits it in column (B):

Column (A) Column (B) a. means that anyone can view and modify the 1 MacOS software. b. is the most popular mobile operating system 2 iOS worldwide. c. runs on iPhone and is used on 27% of the world 3 The operating market. system d. is an operating system for Apple computers. 4 Open-source software e. is the software that manages a computer's (5) Android

functions.

(ICT Prim. 6 - First Term 0.57)

Lesson

Website Design

HTML Tags

HTML

- >> Hyper Text Markup Language (HTML) is the standard programming
 - language used to create static web pages.
- It describes the structure of a web page.

مى لغة البرمجة القياسية المُستخدَمة في إنشاء صفحات الويب، وهي تصف هيكل صفحة الويب.

HTML Elements

HTML consists of a series of elements, such as:

Headings

Paragraphs

Links

Images

Will lead to

These are the building blocks of web pages.

, HTML تتكوُّن من سلسلة من العناصر الأساسية لإنشاء هذه الصفحة، مثل: العناوين، والفقرات، والروابط، والصور، . هذه هي المُكونات الأساسية لصفحات الويب.

>> Web browsers read HTML documents and display the content according to the HTML tag.

Tags have three main parts:

An opening tag

The content

A closing tag

، تقرأ مُتصفَّحات الويب مستندات مكتوبة بلغة HTML، وتعرض المحتوى وفقًا لوسم HTML، وتتكوُّن الوسوم من ثلاثة أحزاء رئيسية: وسم البداية، والمحتوى، ووسم النهاية.

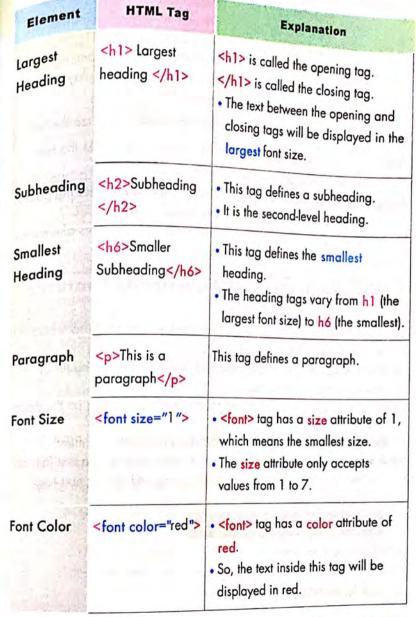
Explanatory Marion

معلومات توضيحية إضافية خارج الكتاب المدرسي

While many HTML tags consist of an opening and a closing tag, some tags known as void elements only have an opening tag. An example of void elements is <ima>.

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37 Some examples for HTML tags:



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Website Design

Lesson (8

Role of ICT in Our Life

Hyperlink	 Visit EKB 	 The <a> tag is used to create a hyperlink. The href attribute specifies the URL of the link. The text between the opening and closing tags will be displayed as the hyperlink.
	<i>ltalics text</i> Bold text 	• <i> tag is used to italicize the text.</i>
Italics		• The tag makes the text
Bold		bold.
Process .	<td>• The src attribute provides the path to</td>	• The src attribute provides the path to
Image	alt="self-driving car">	the image. The alt attribute provides alternative text for the image.

Website Design and Accessibility Features

- >> HTML elements break up web pages to make them easier to scan, read, and navigate.
- >> HTML code can also help people with low vision to distinguish between parts of a web page.
 - 1 Without HTML tags, a screen reader reads everything on the page without stopping.
 - With HTML tags, a screen reader stops after every element.
- A screen reader will describe an image only if an alternate text (alt text) has been included. This requires an image tag and an "alt text tag."

To see web page alt-text:

- 1 Right-click on an image.
- Select "inspect."
- 6 Look for the HTML tag "alt."











تصميم موقع إلكتروني ومزايا إمكانية الوصول:

- و أن المنام المناقب المناقب الرب المناقب المن
- HTML أيضًا الأشخاص ضعاف البصر على التمييز بين أجزاء صفحه الويب.
- فمن دين وسوم لغة ترميز النص التشعبي، يقرأ قارئ الشاشة كل شيء معروض على الصفحة من دون توقف
 - الدون الشاشة بعد كل عنصر.
- ولن تصف شفرة لغة طلالط صورة إلا إذا أدرجت شفرة النص البديل، وهذا يتطلب وَسم صورة ووَسم النصُّ البديل لمشاهدة النص البديل لصفحة الويب، انقر بزر الماوس الأيمن على إحدى الصور وحدُّد وفحص، ابحث عن علامة «alt».

NOTES:

- 1 A large heading at the top of the page catches the attention.
- Subheadings make the text easy to scan, so a reader can find the information they want.
- 3 Text broken up into paragraphs makes it easy for the reader to scan for the information they want.
- 4 Images also attract the attention and can trigger different emotions.
- 5 To make the images accessible, add image and alt-text tags.
 - العنوان الكبح في أعلى الصفحة يلفت الانتباه، والعناوين الفرعية تجعل النص من السهل مسحه ضوئيًا؛ حتى يتمكّن القارئ من العثور على المعلومات التي يريدها.
 - النص المقسم إلى فقرات يجعل من السهل على القارئ مسح المعلومات التي يريدها.
 - تجذب الصور أيضًا الانتباه، ويمكن أن تثير مشاعر مختلفة، ولتسهيل الوصول إلى الصور، أضف علامات الصور والنص البديل.

Exercises on Lesson

Chanca	the correct	answer:
Choose	THE COLLECT	Lanon

- 1 HTML consists of a series of elements, such as links, images and
 - a. headings
- b. paragraphs
- c. both of the previous
- 2)is the standard programming language used to create web pages.
 - a. HTML

- b. Python
- c. C++
- 3 The HTML tag that is used to create a paragraph is
 - a. <h>

- c. >
- A HTML tags have main parts.
 - a. two

- b. three
- c. four
- 5 To make the images accessible on web pages, add to in HTML.
 - a. alt-text

- b. meta
- c. title
- 6 The tag is used to create the largest heading in HTML.
 - a. <h1>

- b. <h6>
- c. <L1>
- To create the smallest heading in HTML, use the tag.
 - a. <h1>

- b. <h6>
- c. <S1>
- 8 Large headings are placed at the of the web page to catch the attention.
 - a. middle

- b. bottom
- c. top
- The tag is used to create a hyperlink in HTML.
 - a. <a>

- b. <h>
- c. <L>
- 10 HTML tags consist of an opening tag, a closing tag and
 - a. the content
- b. comments
- c. attributes

			William Throughouse States
1	11 The tag is t	used to italicize a tex	t in HTML
	a. <h></h>	b. 	C. <i>></i>
	12 To see web page alt-text,	right click on an ima	ge and select
1	a. open	b. inspect	C. Dronerties
	To make the text bold in t	HTML, you can use	- properties
	a. <bold></bold>		c. <s></s>
	13read HTML do		
	the HTML tag.	and display	the content according
	a. Web browsers	b. Web servers	c Davisos
	15 The href attribute is used w	with <a> tag to create	C/CC :- LITHI
	a. paragraph	b. image	c hyperlisk
	16 With HTML tags, a scree		
	the web page.	-	uller every element i
	a. repeats	b. stops	C. continues
	17 The attribu	ute is used to provid	le alternative text for th
	image in HTML.	pionio	to distributive lext for the
	a. href	b. alt	c. ima
	18 Adding to		
	reader can find the inform		
	a. images	b. subheadings	c. music
		1 4	
	Put (/) or (X):		
		and the second second	1

- 1 HTML tags consist of four main parts.
- 2 HTML is the standard programming language used to create dynamic web pages.
- 3 HTML includes only headings and paragraph elements.
- 1 In HTML, the <i> tag is used to display text in italics.
- To make the text bold, you can use the <bold> tag in HTML.

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- 6 A large heading at the top of the page catches the attention.
- 7 </h6> is an opening tag to display the smallest heading in HTML.
- 8 Subheadings font size is larger than the heading.
- 9 HTML code can help visually impaired people distinguish between park of a web page.
- 10 Web browsers have difficulty reading HTML documents.
- 11 To make the images accessible, add image and alt-text tags.
- 12 Without HTML tags, a screen reader stops after every element.
- 13 The <h1> tag is used to create a paragraph in HTML.
- 14 Adding images to web pages attracts the attention and triggers different emotions.
- 15 is used to display the image in HTML.
- 16 When a text is organized into paragraphs, it allows readers to find information quickly.
- Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 	a. It defines a paragraph in HTML.	
2) <h1></h1>	b. It is used to create a hyperlink in HTML.	
3 	c. It is used to make the text bold in HTML.	
4) <i></i>	d. It is used to make the text italics in HTML.	
5)	e. It is used to create the largest heading in HTML	



Role of ICT in Our Life

Lesson

- Mr. Kartik Sawhney is a National Geographic Explorer and a computer expert.
- He uses technology to empower people of determination.
- His Bachelor's and Master's degrees in Computer Science at Stanford University, California, in the US.
-)) His studies focused on artificial intelligence (AI) and human-computer interaction.
-) Mr. Sawhney created an app that converts graphs into audio frequencies.
- Mr. Sawhney has received national and international awards.
- 3) Mr. Sawhney co-founded istemai.com (I-Stem) which provides software that changes digital texts into a format that can be easily used by the blind and visually impaired.
- 3) The I-Stem platform includes mentorship and employment opportunities for people of determination.
-)) The platform is supported by UNICEF, Microsoft, and the National Geographic.
- >> Volunteer mentors can help people of determination with resume writing, job interview preparation and career-related questions.
- >> Egypt supports people of determination in many ways.
-)) There are several ways to create a website using platforms and coding languages.
-)) HTML is a programming language that allows web developers to arrange the various parts of their website using less codes.
- >> HTML is relatively easy to learn and runs on all browsers.
- >> HTML is best used for static web pages.
- Some websites use dynamic web design languages, such as JavaScript, PHP, or Python.
- >>> Kartik Sawhney programs in Python, but he has also programmed in C# and C++.



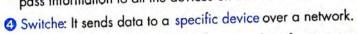
html

LANGUAGE_



Lesson 2

- >> Networks: They are groups of people or things that are connected to each other for a common purpose.
- >> Computers: They are electronic devices that create, process and store information.
- >> Types of computers:
 - 1) Personal computers, such as desktop computers and laptops
 - 2 Mobile devices, such as smartphones, tablets and e-readers
- >> Types of networks:
 - Wired networks: They use cables that are plugged into ports.
 - Wireless networks: They connect devices without wiring using radio waves or Wi-Fi.
- >> Network devices:
 - 1) Server: It's a computer which provides services to other computers.
 - 2 Modem: It's a device that connects a LAN to the Internet.
 - 3 Hub: It allows wired devices to connect to a network and pass information to all the devices on that network.



- 6 Router. It connects a modem to different networks; it functions as a gateway.
- >> Switches are intelligent devices, but hubs are unintelligent.
- >> Artificial intelligence (AI): It is a machine's intelligence that can be used to solve problems.
- >>> Examples of Al on your devices: navigation, voice recognition, virtual assistants, holograms
- >> Holograms: It is a 3-dimensional (3D) image that you can see without the use of special glasses or equipment.
- If you look at a regular 3D image without special 3D glasses, it will appear as a 2D image.

Lesson 3

- Augmented reality (AR) combines the real world with a virtual world by adding computer-generated images.
- yirtual reality: It is a simulated 3D environment that allows users to explore and interact with the surroundings, as if they were in reality.

 To experience VR, users wear a VR headset that provides 360-degree views.
- A cardboard VR headset is an inexpensive way to experience VR.
- Artificial intelligence (AI): It is the ability of a machine such, as a computer, to think and learn.
- **Stample of using Al: A smartphone or email program that predicts the next word, facial recognition, filtering spam mail and matching a paying passenger with an available driver.

 **Pruturistic technologies can improve the lives of people of determination.

Lesson 4

- >>> Cutting edge technology: It's the newest and most advanced version of a service or product, such as: artificial intelligence (AI), augmented reality (AR) and virtual reality (VR).
- Assistive technology: It helps people of determination with tasks they find challenging, such as: screen magnification software, hearing aids, speech-to-text and text-to-speech programs.
- >> Smartgloves: They empower deaf people to translate their signs in real time to spoken or text output.
- User experiences: Describe how people use and interact with a product, and how they evaluate their experiences. It may be positive or negative.
- There are 7 factors that affect UX in the opposite figure.
- User experience is interlinked with the development of products and services.
- The goal of cutting-edge assistive technology is to improve someone's independence and to be included in society.

Valuable

Valuable

Valuable

Valuable

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Lesson

Command	Сору	Cut	Paste
and the same of th	• Ctrl + C	Ctrl + C Ctrl + X	• Ctrl + V
• Windows		• Cmd + X	• Cmd + V
• MacOS	• Cmd + C	- Cilia i ii	

- >> Search engines help people to search Internet websites based on the keywords and phrases.
- >> They are user-friendly, very fast, and often give many results.
- Databases: They are collections of information which are typically stored in a computer system and can be accessed, for free, through a school or library.
- >> A database is a good place to search for information from journals. newspapers, and reference books.

General Database	Subject Database	
-142	 It covers only one subject, such as business or law. Any results will be specific to your topic. 	

- >> Library catalog: It is a database which includes all the items owned by a library.
- >> When you search any database:
- 1 Use a keyword search.
- 2 Review the results.
- 3 You can narrow a search by using fields like author or journal title.

Lesson 6

>> Mobile devices include smartphones, tablets, and e-readers.

Smartphones and Tablets	E-readers
 They surf the web and check emails. They often have high-quality cameras, speakers, and screen resolution. 	They look like tablets, but are mainly used for reading books.

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- Mobile devices are portable and can access the Internet and function by
- They can be held in landscape or portrait mode, laid flat.
- 1) They con mode, laid flat.

 Mobile devices help students in learning beyond the classroom,
- for example: Creating short videos or taking photos for projects.
- Scanning QR codes to access content,
- Using online post-it walls, shared class forums, or group chats.
- Using orange to podcasts, reviews of video games, and accessing learning
- Some say easy access to information has decreased the thinking skills, social interaction and people's attention span.
- Small screens can make reading and viewing graphics difficult.
- A speech assistance app can help a non-verbal student participate in a class, where people can buy and sell products.

Lesson

- Operating system (OS): It is the software that manages a computer's functions, such as memory, drives, printers, and other devices.
- OS manages accessible devices, such as screen readers and magnifiers.
-) OS runs a computer's software and hardware.
-)) OS acts as a translator; it translates user communication to computer languages.
-) Computer operating systems:

Microsoft Windows	MacOS	Linux and Chrome OS
worldwide.	 It runs on Apple computers. It's used on 15% of the world market. 	• It's used on about 2-3% of the market.

SUMMARY on Theme

>> Mobile operating systems:

Android

- The most popular worldwide
- Used on 72% of the world market
- Open-source operating system

Apple iOS

- Runs on iPhone
- · Used on 27% of the world market
- Closed-source operating system
- >> Cutting-edge operating systems:
 - 1 The Robot Operating System (ROS): is an open-source software for building robot applications.
 - Operating systems powering self-driving cars
- >> Programming languages: Instructions to a computer are given in codes >> Programming languages have evolved from simple machine language
- (binary) to high-level human-like languages.
- >>> Programming languages are usually open-source.
- >> HTML is compatible with all the major web browsers.

Lesson 8

- >> Hyper Text Markup Language (HTML) is the standard programming language used to create static web pages.
- >> HTML consists of a series of elements such as: headings, paragraphs, links and images.
- >>> Web browsers read HTML documents and display the content according to the HTML tag.
- >> HTML tags have three main parts: an opening tag, the content and a closing tag.
- >> Without HTML tags, a screen reader reads everything on the page without stopping.
- >> With HTML tags, a screen reader stops after every element.
- A screen reader will describe an image only if alternate text (alt text) has been included.
- >> Images and large headings at the top of the page catches the attention.
- >> Subheadings make the text easy to scan.
- >> Text broken up into paragraphs makes it easy for the reader to scan the information

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Role of ICT in Our Life



find challenging.	nology helps people of dete	ermination with tasks the
a. Assistive	b. Cutting-edge	c. Virtual
2 HTML is used to cre	eate web pag	C. VIIIOGI
a. static	b. dynamic	c both of them
3) are cor	computers that have large a	maunts of July
a. Switches	b. Servers	c. Hubs
1 Instructions to a cor	mputer are given in the form	n of a
a. Word file	b. code	c. video
databases co	over only one subject, such	as business as leave
a. Electronic	b. General	c. Subject
Put (✓) or (x):		c. oobject
	connect devices with physic	ral wiring and cables I
2) Artificial intelligence	e is one of the cutting-edge	atachnologies (
	so't pood on an analisment	rechnologies.
Salfdriving care de	in theed an operating system	em to pertorm.
To make the image	s accessible, add the imag	e and alt-text tags. (
		e and alt-text tags. (

the brackets:

(cut - E-readers - post-it walls - EKB - Smartgloves)

-is an example of a general database.
- look like tablets, but are mainly used for reading books.

e revision on Theme II	Choose from column (A) what suits it in column (B):
The shortcut "Ctrl + X" is used to	Column (A)
translate sign language of the stranslate sign language o	MacOS specific to your tonic specific to your tonic
	@ QR codes: b. are how people feel phose
Model Exam	Subject darabases C. Scanning it can help students to occess information quickly and easily.
Choose the correct answer:	User experiences d. is an operating system for Apple computers.
pass information to a specific device over a network. b. Hubs c. Modems	Futuristic technology: and virtual reality.
is an operating system for Apple computers. b. MacOS c. iOS	0-0-0-5
S Kartik Sawhney studied in his Bachelor's and Master's degree a. Computer Hardware b. Computer Science c. Science	Model Exam
To experience virtual reality, users often wear a. 3D alasses b. VR headsets c. AR headsets	Choose the correct answer:
You can use mobile devices to scan and access related video, audio, and texts.	Blind people can listen to texts uploaded to istemai platform using b. screen readers hearing aids
a. PIN codes b. podcasts c. QR codes	2 The HTML tag that is used to create a paragraph is
Put (/) or (x):	a. <h>b. <a> c.</h>
1) Futuristic technologies can't improve the lives of people of determination.	connect devices to a network and send data to all devices. a. Switches b. Hubs c. Modems
Modern mobile devices function by touch.	¶ You can use the shortcut "Ctrl + C" to a text or an image in Windows.
To make a text bold, you can use <bold> tag in HTML</bold>	a. copy b. cut c. paste
Assistive technology helps people of determination to be included in	are used to surf the web and check emails, like PCs.
society. User experience is always positive.	a. Smartphones and tablets b. Cameras and speakers c. Keyboards
ICT Prim. 6 - First Term	ICT Print 6 - First Term 73

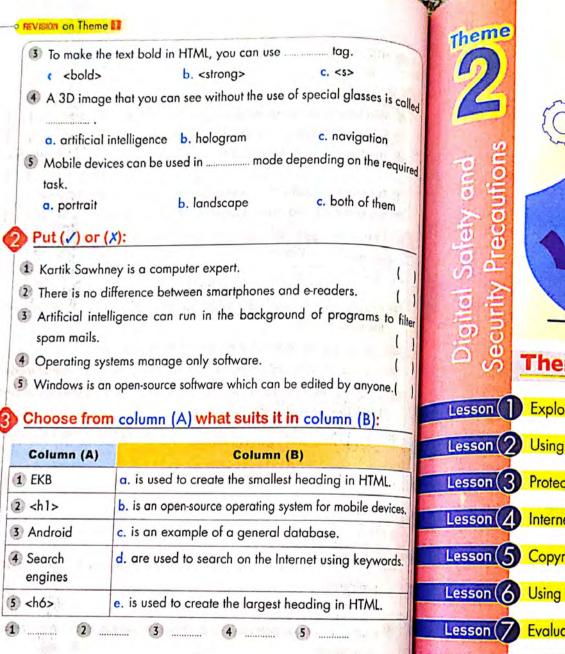
- 1/ () an (v):	
2 Augmented reality he	ating dynamic web pages. Ips students become active participants in learning
1-termination	ve technology has no effect on people
4 Android is an open-so 5 EKB is an inaccurate s	ource operating system.
EKB is an inaccurate	targes from the words between
Complete the follow	ving sentences from the words betwee
the brackets	Library catalog - iOS - Assistive technology
runs on iPho	e of determination with tasks they find challenging one and is used on 27% of the world market.
runs on iPho is a databas is the most p	one and is used on 27% of the world market, e which includes all the items owned by a library copular mobile operating systems worldwide.
runs on iPho is a databas is the most p is the latest o	one and is used on 27% of the world market, which includes all the items owned by a library opular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest o	one and is used on 27% of the world market, which includes all the items owned by a library copular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest of	t answer:
runs on iPho is a databas is the most p is the latest of Choose the correct A computer learns by	one and is used on 27% of the world market, which includes all the items owned by a library copular mobile operating systems worldwide, and most advanced technology.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by	tanswer: provided examples. b. storing c. saving
runs on iPho is a databas is the most p is the latest of Choose the correct A computer learns by a. analyzing	t answer: provided examples.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by a analyzing describes a. Futuristic technology	e which includes all the items owned by a librate oppular mobile operating systems worldwide, and most advanced technology. Clelexam Provided examples. b. storing c. saving how people interact with and evaluate a product.
runs on iPho is a databas is the most p is the latest of is the correct A computer learns by a analyzing describes a. Futuristic technology	tanswer: b. storing b. storing b. User experience c. Virtual reality b. World market. cond most advanced technology. c. Saving b. User experience c. Virtual reality

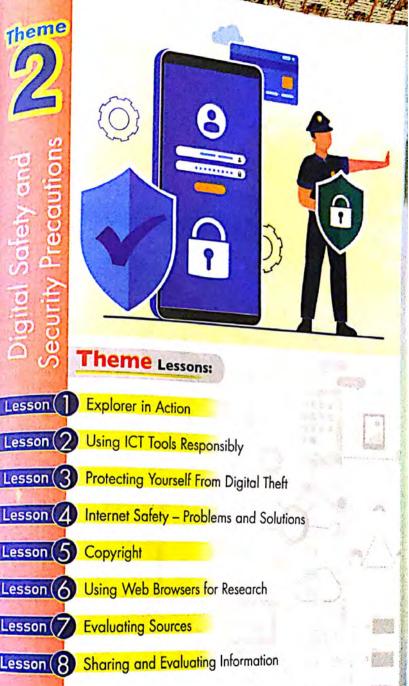
b. biased

c. unreliable

- II I-as bayo	on Theme III o-
5 HTML tags have main p	parts.
a. two b. three	c. four
Put (/) or (X):	
Windows is an operating system used	on 15 % r
Subheadings font size is larger than t	pending of computers.
The Miracle Child "Rania Saleh" is a	reddings.
	programmer with Down Syndrome.
The shortcut "Cmd + X" is used to cut a	()
It is recommended to use a keyword to	riext or an image in Windows.()
a malete the following	o conduct a database search.()
Combiere rue roughing sentend	es from the words between
the practices.	
(VR - AR - Mobile device	es - Al _ HTMIN
is a simulated 3D environme	ont the Little
the surroundings.	and allows users to interact with
is the ability of a machine t	and the same of th
and a stable of a machine r	o think and learn.
3) are portable and can be he	ld :- !!
	and in landscape or portrait mode.
 adds computer-generated in 	eld in landscape or portrait mode. Trages to show a 3D model of what
adds computer-generated in looks like the real world.	mages to show a 3D model of what
adds computer-generated in looks like the real world.	mages to show a 3D model of what
adds computer-generated in looks like the real world. is the standard programming lands.	mages to show a 3D model of what nguage used to create web pages.
looks like the real world.	mages to show a 3D model of what nguage used to create web pages.
looks like the real world. is the standard programming language.	mages to show a 3D model of what nguage used to create web pages.
adds computer-generated in looks like the real world. is the standard programming lands.	mages to show a 3D model of what nguage used to create web pages.
looks like the real world. Sometimes and the standard programming lands are standard progr	mages to show a 3D model of what nguage used to create web pages.
adds computer-generated in looks like the real world. is the standard programming lands.	mages to show a 3D model of what nguage used to create web pages.
adds computer-generated in looks like the real world. Sometimes and and programming land the standard programming land the st	nages to show a 3D model of what nguage used to create web pages.
doks like the real world. Sometimes and a computer-generated in looks like the real world. Model Example: Choose the correct answer:	nages to show a 3D model of what nguage used to create web pages.
doks like the real world. looks like the real world. Model Ex Choose the correct answer: is a machine's intelligence.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve
doks like the real world. Iooks like the real world. Model Ex Choose the correct answer: is a machine's intelligence b. Hologram.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve am c. Switch
doks like the real world. Sometimes and a computer-generated in looks like the real world. Model Example: Choose the correct answer: is a machine's intelligence of the correct answer.	nages to show a 3D model of what nguage used to create web pages. 5 gence that can be used to solve am c. Switch

a, credible





Explorer in Action

Raghda (Didi) El-Behaedi

- She is a National Geographic Explorer.
- She is working towards a PhD in Egyptian Archaeology at the University of Chicago in the US.
- Ms. El-Behaedi has worked as a remote sensing research consultant at NASA النسة ديدي البيحايدي مُستكشِفة في ناشونال جيوجرافيك.

Ms. Didi's uses technologies in her work.



Geospatial Technologies

- Ms. Didi uses geospatial technologies, such as:
 - Ogeographic Information System (GIS)
 - @ Remote Sensing (RS)
- Global Positioning System (GPS) in her work
- These technologies assist in the geographic mapping and analysis of Earth and human societies.
- >> She has excavated several archaeological sites in the US, France, and Egypt.
- 3) She is also the co-director of the Memphis-Kom el-Fakhry Archaeological Project (Egypt).
- >> She has been working in the area of Lake Moeris in Fayum, Egypt, to learn how ancient Egyptians dealt with the decreasing amount of water in the lake.

· الآسة ديدي تُستخدم تقنيات الجغرافيا المكانية في عملها مثل: GIS, RS, GPS، وتساعد هذه التقنيات في رسم الخرائط الجغرافية للأرض وتحليل الأرض والمحتمعات البشرية.

- و تقبت الأنسة ديدي في العديد من المواقع الأثرية في كلُّ من الولايات المتحدة الأمريكية وفرنسا ومصر.
 - وهي أيضًا المدير المشارك في مشروع كوم الفخري في مدينة ممفيس بمصر،
- ولد عملت أيضًا في منطقة بركة قارون (بحيرة موريس) في محافظة الفيوم بمصر؛ من أجل معرفة كيفية تعامل المصريين القدماء مع انخفاض نسبة المياه في البحيرة.





- Ms. El-Behaedi uses remote sensors in her work.
- The remote sensors are special cameras placed on satellites, drones, and planes that collect electromagnetic radiation reflected from the Earth's surface.
- The remote sensors provide extremely clear images of the ground's surface
- Ms. El-Behaedi uses the images to identify, map, and date the ancient shores of the lake and find previously undiscovered ancient settlements.
- . الآنسة البيمايدي تَستخدم دائمًا أجهزة الاستشعار عن بُعد في عملها. أجهزة الاستشعار عن بُعد هي كاميرات خاصّة يمري. الانسه البيحايدي مستحدم مستحدة . وضعها على أقمار صناعية أو طائرات من دون طيار وطائرات عادية، وتقوم بجمع الإشعاع الكهرومغناطيسي المنعكس من
 - معم ، مجوره ، مسسدر من بـ مرد . شواطئ البحيرة القديمة، ورسم خرانطها، وتحديد تاريخها، والعثور على مستوطنات قديمة لم تُكتشف من قبل.



معلومات توضيحية إضافية خارج الكتاب المدرسي

- Geospatial technologies are tools that help us understand the world around us by collecting, analyzing, and visualizing location data. Here are some specific examples of geospatial technologies:
- Geographic Information System (GIS): GIS is a software program that allows us to store, analyze, and visualize information about places. You can use GIS to do things like finding the shortest path between two points.
- Remote Sensing (RS) is a way of collecting information about an area from far away using special cameras and sensors on satellites and airplanes.
- Global Positioning System (GPS) is used to find locations; it is commonly used in navigation systems like those in cars and smartphones.



Machine Learning

>> Ms. El-Behaedi uses computers to find previously unknown archaeological sites by inputting data about known archaeological sites and programming the computer to look for similar sites.



>> This is called "machine learning".

Theme

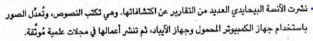
>> Example on machine learning: If you have used YouTube and received suggestions for other videos you might like. Those videos show up through a data search based on other views.

تستخدم الآنسة البيحايدي أجهزة الكمبيوتر لتحليل البيانات والتنبُّق بالأماكن التي قد تجد فيها مواقع أثرية مجهولة من وسب المراد وهي تُدخل بيانات حول المواقع الأثرية المعروفة، ثم تُبرمج جهاز الكمبيوتر للبحث عن مواقع مماثلة، وهذا ما يُسمَّى

والمصاحب على تعلُّم الآلة: إذا سبق لك استخدام موقع يوتيوب وتلقّيت اقتراحًا لمقاطع فيديو أخرى قد تعجبك؛ إذ تظهر مقاطع الفيديو هذه من خلال البحث عن البيانات بناءً على مشاهد أخرى.

Captop and iPad

- >> Ms. El-Behaedi has published several reports on her discoveries.
- >> She writes her texts, creates figures, and edits images using her laptop and iPad, then she publishes her work in trusted journals.





How does Ms. El-Behaedi protect her information

Ms. El-Behaedi protects her information by:

Installing an antivirus **Using strong** passwords

Backing up data frequently

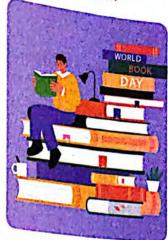
ولكي تحمى الآنسة البيحايدي معلوماتها، تستخدم برامج مكافحة الفيروسات، وكلمات مرور قوية على أجهزتها، كما تحرص على إجراء نُسخ احتياطي لبياناتها بانتظام.

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The characteristics of Ms. El-Behaedi as an integral scholar:

Learning from other scholars.

- @ She reads articles in trusted digital libraries and academic journals to ensure information is correct.
- a If she refers to other scholars' works in her reports, she uses citations.
- 10 use images or infographics. she contacts the individual or the institution to ask for permission.



صفات الأنسة البيحايدي بصفتها باحثة متميزة:

- التعلم من الباحثين الآخرين.
- قدراً مقالات منشورة في الكتبات الرقعية والجلات الأكاديعية الموثوقة التي راجعها باحثون آخرون؛ لتضمن أن المعلومات صحيحة. وعندما تشير الأنسة البيحايدي إلى أعمال باحثين آخرين في تقاريرها، فإنها تستخدم التوثيق.
- وكذلك عند استخدامها صورًا أو رسومات بيانية خاصة بأحد الأشخاص أو المؤسسات، فإنها تتواصل معهم لطلب
- >> Ms. El-Behaedi intends to use the knowledge she has gained in her excavations to help preserve Egypt's cultural heritage.
- >>> Because of these important works, like Ms. El-Behaedi's work, we can learn more about our history and how our ancestors dealt with environmental changes.
- >> Solutions for the past problems could help us solve future issues. - تعتزم الآنسة السحابدي استخدام العرفة والخبرة التي اكتسبتها من خلال عمليات التنقيب التي أجرتها سابقًا؛ للمساعدة في الحفاظ على التراث الثقافي لمصر. ومن خلال الأعمال المهمة، مثل التي تؤدِّيها الأنسة البيحايدي، يمكننا معرفة المزيد عن تاريخنا، وكيفية تعامل أسلامنا مع النغيرات البيئية. كما يمكن أن تساعدنا حلول المشكلات الماضية في حلُّ المشكلات التي

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تطرأ في الستقبل.

JavaScript

>> There are several programming languages that can be used to create an application.



>> Creators like Ms. Didi El-Behaedi prefer to use JavaScript for many reasons.

- 1 It works on all personal computers and mobile phones.
- 2 It can be used with other programming languages, such as HTML
- 1 It makes web pages interactive with dynamic content, animations pop-up menus, and clickable buttons.

JavaScript was used to build YouTube, Facebook, Amazon and other websites and applications that engage users.

- >> During an internship at NASA LaRC, Ms. El-Behaedi and her team coded in JavaScript to create a geospatial app on Google Earth Engine which is a free platform.
- >> Unfortunately, no one in the team knew how to code in JavaScript.
- >> In a week, they learned it by:

Viewing

YouTube videos

Online tutorials

Sample scripts

- >> The team was able to create a great geospatial app called PRISM.
 - هناك العديد من لغات البرمجة التي يمكن استخدامها لإنشاء تطبيق.

يُفضُل المبتكرون، مثل الآنسة ديدي البيحايدي، استخدام لغة البرمجة جافاسكريبت السباب مُتعدِّدة. فهي تعمل على جميع أجهزة الكمبيوتر الشخصية والهواتف المحمولة، ويمكن استخدامها مع لغات البرمجة الأخرى، مثل لغة HTML. فهي تجعل صفحات الويب أكثر تفاعلية بإضفاء: محتوى ديناميكي، ورسوم مُتحرُكة، وقوائم منبئقة، وأزرار قابلة للنقر، وقد استُخدمت لغة البرمجة جافاسكريبت لإنشاء موقع يوتيوب وفيسبوك وأمازون ومواقع إلكترونية وتطبيقات أخرى تجذب المستخدمين. خلال فترة تدريب في مركز أبحاث ليندبيرغ التابع لوكالة ناسا، قامت السيدة البهادي وفريقها بكتابة كود في JavaScript لاشاء تطبيق للتقنيات المكانية على Google Earth Engine وهو منصة مجانية.

السوء الحظ لم تكن هي أو أي عضو من فريقها يعرفون كيفية التشفير بلغة جافاسكريبت. وفي غضون أسبوع، تعلّموا ذلك من خلال مشاهدة مقاطع فيديو على يوتيوب، وبرامج تعليمية متاحة عبر الإنترنت، ونماذج من النصوص البرمجية. وبذلك، تمكّن الغربق من تصميم تطبيق جغرافي مكاني رائع يُسمَّى PRISM.

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Exercises on Lesson 1

The letter let

1 Ms. Didi El-Behaedi is	a/an att	
1 Ms. Didi El-Behaedi is a. explorer 2 Ms. El-Behaedi is stud University. a. Artificial Intelligence 3	te b. Egyptian Archaeolog	at Chicago By c. Computer Science
a. trusted 5 Ms. Didi El-Behaedi	b. untrusted uses geospatial technologi	c. both of them
 a. GIS 6refer to the sa. Opinions 7 The remote sensors are and planes. 	b. Remote Sensing (RS) sources you used in your re b. Citations re special placed	c. both of them eport. c. Assumptions d on satellites, drones
a. cameras	b. computers	c. microphones
8 was used to a. Swift 9 Ms. Didi El-Behaedi ha	build YouTube, Facebook, b. JavaScript	and Amazon.
a. astronaut	b. research consultant	C. Droorammer
Suggestions for other v		
a. geospatial technologc. machine learning	gies	b. remote sensing

19 To use images of mission as for permission as forms. 19 Ms. ElBehaedi uses be made a geospatial app called PRISM using be made as forms of the characteristics of the integral scholar is the ability to a HTM. 15 One of the characteristics of the integral scholar is the ability to be from other scholars. 16 a. copy 17 Ms. ElBehaedi protects her information using and analysis of Barth ElBehaedi is an archaeologist. 18 Ms. ElBehaedi is an archaeologist. 19 Ms. Didi ElBehaedi is an archaeologist. 19 Ms. Didi ElBehaedi is an archaeologist. 19 Ms. ElBehaedi doesn't use remote sensors in her work. 19 Ms. ElBehaedi doesn't use remote sensors in her work. 19 Ms. ElBehaedi doesn't back up her data. 19 Ms. ElBehaedi publishes her work in untrusted journals. 20 Put (*) or (*): 21 JavaScript makes web pages interactive with animations, pop-up menus, and clickable buttons. 22 JavaScript makes web pages interactive with animations, pop-up menus, and clickable buttons. 23 JavaScript makes web pages interactive with animations, pop-up menus, and clickable buttons. 24 Ms. ElBehaedi publishes her work in untrusted journals. 25 Google Earth Engine is a free, cloud-based computing platform. 26 Geospital technologies assist in the geographic mapping and analysis of Earth. 27 Ms. ElBehaedi is an National Geographic. 28 Ms. ElBehaedi is an National Geographic. 29 You should use weak passwarks to protect your data. 29 Ms. Did ElBehaedi is warking to earn a PhD in Egyptian Archaeology from Cairo University. 29 Ms. Did ElBehaedi is formentian using many ways. 29 Ms. Did ElBehaedi is formentian using many ways. 20 Ms. ElBehaedi is an archaeologistal site. 20 Ms. ElBehaedi is an archaeologistal site. 21 JavaScript deen from the fathiny archaeological site. 22 JavaScript makes web pages interactive with animations, pop-up menus, and clickable buttons.	Ms. El-Behaedi uses b. machine learning c. cameras a. drones Ms. El-Behaedi's team created a geospatial app called PRISM using b. JavaScript c. Python a. HTML One of the characteristics of the integral scholar is the ability to from other scholars. a. copy Ms. El-Behaedi protects her information using c. quote a. anti-virus software b. backup of data c. both of them a. anti-virus software b. backup of data c. both of them b. find previously unknown dichaeological site. Ms. Didi El-Behaedi is working to earn a PhD Archaeology from Cairo University. Ms. Didi El-Behaedi hasn't excavated any archine learning to discovered and the machine learning to discovered and the	our data. In Egyptian Chaeological sites I many ways. Aemphis-Kom el-Fakhry over unknown
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The state of the s

Lesson

Using ICT Tools Responsibly

Here are some tips on how to be a socially, intellectually, and ideological. responsible citizen online.

ponsible citizeri والنصائح حول كيفية أن تكون مواطنًا مستولًا اجتماعيًّا وفكريًّا وأيديولوجيًّا على الإنترنت.

Socially:

- >> Sharing personal information can lead to:
 - Online and offline hacking
 - Harassment
- **8** Bullying
- >> Some behaviors can lead to hurting feelings or even legal actions, such as:
 - Disregarding people's privacy
 - Bullying
 - 1 Not watching your tone

المتماعيًا: مشاركة المعلومات الشخصية يمكن أن يؤدي إلى: القرصنة عبر الإنترنت أو من دون إنترنت، والضابقات، والتنمُّر. الملك المال المال المال المال المال المال المال المال أو اتخاذ إجراءات قانونية مثل: إهمال خصوصية الناس، والتنمُّر، أو عدم راعاة نبرة حديثك.

Intellectually:

-) It's immoral to post others' ideas as your own.
- 1) Not checking the reliability of sources can lead to the spread of misinformation.
- >> This type of intellectual misbehavior can cause two things:
 - 1 Discrediting yourself.
 - Legal actions are taken against you.

ويعم التحقُّق من مصداقية مصادرك يمكن أن يؤدي إلى انتشار المعلومات الخاطئة. بكن لهذا النوع من سوء السلوك الفكرى أن يُشوِّه سمعتك، وأن يؤدي أيضًا إلى اتخاذ إجراءات قانونية.

. فكرنًا: من غير الأخلاقي أن تنشر أفكار الآخرين على أنها أفكارك الخاصة.



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ideologically:

)) It is wonderful to be passionate about a social issue or cause. However, some behaviors lead you to not be ideologically responsible, such as:

Being others pushy

Unsure, or untruthful about information you share

- This type of behavior can lead people to:
- Distrust your information now and in the future.
- People may lose interest in the issue.

. من الرائع أن تكون شغوغًا بقضية أو هدف اجتماعي، ولكن تقودك بعض السلوكيات إلى أن تكون غير مسئول أيديولوجيًّا مثل: مضايقة



الأخرين، أو أن تكون انتهازيًّا، أو لثيمًا، أو غير متأكد، أو غير صادق بشأن معلوماتك. بل يمكن لهذا النوع من السلوك أن يجعل الأخربن يفقدون النفة بالمعلومات التي تُقدُّمها الآن وفي الستقبل، ويمكن أن يؤدي أيضًا إلى أن

Using ICT Tools Responsibly

Useful Tips

-)) If you are feeling uncomfortable about something online:
 - . Think about how you are behaving online.
 - Think about how those you are communicating with are behaving.
- >> Irresponsible behavior, online or offline, is harmful. It can cause feelings of sadness, guilt, anxiety, and even fear.
-) Let a trusted adult know if you are feeling bad and need help.
- >> Do not forget to log off your devices and communicate your ideas in person.
- >> Be respectful of your online/offline balance. It is irresponsible to put online activity over your personal relationships and your mental health. . إذا كنت تشعر بالانزعاج من شيء ما عن الإنترنت، فكُر في السلوك الذي تتَّبعه على الإنترنت، والسلوك الذي يتَّبعه هؤلاء الذين
- إن السلوك غير المسئول على الإنترنت أو خارجه شيء ضار، ويمكن أن يُسبِّب الشعور بالحزن، والذنب، والقلق، وحتى الخوف، أخبر شخصًا بالغًا إذا ما كنت تشعر بالسوء أو تحتاج إلى مساعدة.
- لا تنسَ أن تُسجّل الخروج من أجهزتك وأيضًا إيصال أفكارك وجهًا لوجه ا عليك مراعاة التوازن بين وقتك على الإنترنت ووقتك خارجه. فمن عدم المسئولية أن تُفضَّل الأنشطة عبر الإنترنت على علاقاتك الخاصة وصحتك النفسية.

Responsibly Gaming

>> Playing electronic games online with friends can be a lot of fun, but you should be on the alert for some issues:



@ Hacking

Malware

ظام المناسبة المناسبة المناسبة عبر الإنترنت مع الأسنفاء مسلبة جناً، ولكن يجب أن تكون منتبها لبعض الشكلات مثل: بهكان المون بهكان المرابعة والفرصنة، والتكاليف المخفية، والبرمعيات الخبيئة. مناع عبر الإنترنت، والفرصنة، والتكاليف المخفية، والبرمعيات الخبيئة.

Tips to Be Safe Online

- Only play games and chat with people you know and trust.
- 2 Don't put personal information, such as your full name as your username, online.
- O Don't use a web cam unless your settings are private.
- @ Remember to ask a trusted adult's permission before you download or click on links to products, they might contain malware or there may be hidden charges.
- 6 Manage your time responsibly!

نصائح لتكون آمنًا على الإنترنت:

الم ودريش فقط مع أشخاص تعرفهم وتثق بهم، ولا تنشر معلومات الشخصية، مثل وَضْع است الكامل مكان اسم المتخدم عبر الإنترنت. لا تستخدم كاميرا الويب إلا إنا كانت إعداداتك خصوصة.

متنكُ أن تطلب إنن شخص بالغ قبل تنزيل محتوى أي روابط المتجاد أو الضغط عليها؛ إذ قد تتضمُّن برمجيات خبيتة أو تكاليف مخفية. اضافة إلى ذلك، كُن مسئولًا بإدارة وقتك!



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Exercises on Lesson 2

Choose the correct	answer:	
Sharing personal inform a. safety Balance between onlin behavior.	ation online can lead to b. hacking ne and offline activities	c. both a and b
a. responsible 3 Online gaming can be for a cyberbullying 4 Bullying others and discussion irresponsible to a socially	b. irresponsible un, but may cause b. hacking sregarding their privacy pehavior b. intellectually	c. useless c. both a and b is considered a/an
a. responsible Not evaluating the source a. accurate information	b. irresponsible es may lead to spread of b. misinformation	s a/an behavior. c. safe c. facts
a. Disregarding people's	privacy	b. Bullying
If you are feeling uncomf a. continue as usual		
Irresponsible behavior, or a. sadness, guilt, anxiety	nline or offline can cause	
b. happiness and joy		c. nothing
Intellectual misbehavior ca, credit	b. discredit	ad to legal actions. c. acknowledge.

Using ICT Tools Responsibly on the information you share leads you to activities.

Using ICT Tools Responsibly on the information you share leads you to activities.

To be safe online, chat and play games with people you know and trust.

You shouldn't use a web cam unless your settings are private.

16 It is not important to communicate your ideas in person.

17 It is a responsible behavior to download copyrighted music or movies for free.

Complete the following sentences using the words between the brackets:

(web cam - socially - intellectually - maleware - personal information

1 Don't share _____, such as your full name or your passwords online.

2 Don't use a unless your settings are private.

3 Playing online games may expose you to _____.

Watching your tone when dealing with others is an _____ responsible behavior.

5 Posting others' ideas as your own is considered an _____ irresponsible behavior.



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Protecting Yourself From Digital Theft

- It is irresponsible to leave your devices at risk by not taking proper safety precautions.

 It is irresponsible to leave your devices at risk by not taking proper safety precautions.
- >> You have learned about the importance of strong passwords. Let's look at some more ways you can effectively protect your devices from theft.

from theft.

المسئولية أن تَتُرك أجهزتك الخاصة مُعرَّضة للخطر بعدم اتخاذ إجراءات الأمان المناسبة.

الم ين عدم المسئولية أن تَتُرك أجهزتك المور القوية، فلنُلقِ نظرة على المزيد من طرق حماية أجهزتك من السرقة بشكل فعال.



Passwords with 8+ random letters, numbers and symbols are the most secure.



. كلمان المرور التي تتكوَّن من ٨ حروف، وأرقام، ورموز عشوائية أو أكثر، هي الأكثر أمانًا.

- Multi-factor Authentication (MFA)
- MFA requires at least two ways of identifying yourself.
- >> It is usually through passwords, pins, and security codes or personal questions.

تتطلب المصادقة مُتعددة العوامل طريقتين على الأقل لتحديد مُويِّئك، وعادةً ما يتم ذلك
 من خلال: كلمات المرور، وأرقام التعريف الشخصية، ورموز الأمان أو الأسئلة الشخصية.



B Fingerprint Authentication

This type of authentication will scan your finger, usually your thumb, as a way of confirming it's you.
المصادقة ببصمة الأصابع: هذا النوع من المصادقة سيُجري مسحًا لإصبعك الإبهام عادةً، كطريقة لتأكيد مُويُك.



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Facial Recognition

">Facial recognition software will scan your face using your device's camera.

Only your face will allow your device or device's apps to open.

برنامج التعرف على الوجه سيُجدي مسخًا لوجهك باستخدام الكاميرا الخاصة بك؛ وبذلك سيسمح
لوجهك دون سواه بفتح جهازك أو التطبيقات الموجودة فيه.

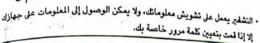


Lesson 3

Protecting Yourself From Digital Theft

6 Full Disk Encryption

Encryption scrambles your information and can only be accessed on your device if you have set a password.





6 Lock When Lost

Enabling lock mode on your device will allow you to lock it if you lose it, usually by logging in to your Google or iCloud account.

سيسمح لك وضع الغفل التمكيني على جهازك بقفله إذا فقدته، عادةً عن طريق تسجيل الدخول إلى حساب Google أو Google بتعيين كلمة مرور خاصة بك.



Data Protection Law in Egypt

1 Companies

- >>> Companies are in particular need to protect their websites and their customers' information.
- In 2020, Egypt formed the Data Protection Law to protect its citizens.
- Companies must report immediately if they've been victims of data theft, and let their customers know immediately as well.
 - · تحتاج الشركات بشكل خاص إلى حماية مواقعها الإلكترونية ومعلومات عملائها.
 - · في سنة ٢٠٢٠، أنشأت مصر قانون حماية البيانات الشخصية لحماية مواطنيها.
 - · يجب على الشركات الإبلاغ على الفود إذا وقعوا ضحية اسرقة البيانات، وإعلام عملائهم مباشرة أيضًا.

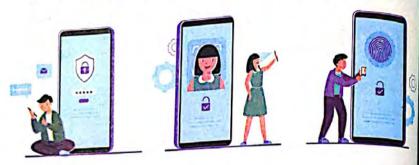


2 Individuals

- >> Individuals should report data theft too. 12 Individuals should report to the proper authorities know the proper authorities kno
- Parent or trusted adult, they can let the proper authorities know.
- >> You should also tell the family and friends you communicate with online You should also tell the tamily und that You should also the tamily und that You should also th come from your accounts.

رائد عليهم أيضًا الإبلاغ عن سرقة البيانات. إذا شككت بتعرض بياناتك للخطر، احرص على إخبار أحد والديك أو شخص بالغ موثوق به: إذ يمكنهم إبلاغ السلطات المسئولة.

منا عليك إخبار أسرتك والأصدقاء الذين تتواصل معهم عبر الإنترنت. وبهذه الطريقة، لن يفتحوا أيَّ مرفقات أو ينقروا على المناسك الشخصية.





Exercises on Lesson 3

Choose the correct answer-

Strong passwords contain at least characters. c. 8 What does MFA stand for? a. Multi-function Application h Multi-factor Authentication c. Multi-feature Algorithm is a type of authentication that uses your fingerprint to confirm your identity. a. Fingerprint authentication b. Facial recognition c. A password

law requires companies to use strict security standards to protect their data. b. E-marketing c. Data Protection a. Copyright

(5) The process that scrambles your information and makes it unreadable to others is called

b. compression c. encryptionrequires at least two ways of identifying yourself.

a. Multi-factor authentication

b. Fingerprint authentication

c. Facial recognition

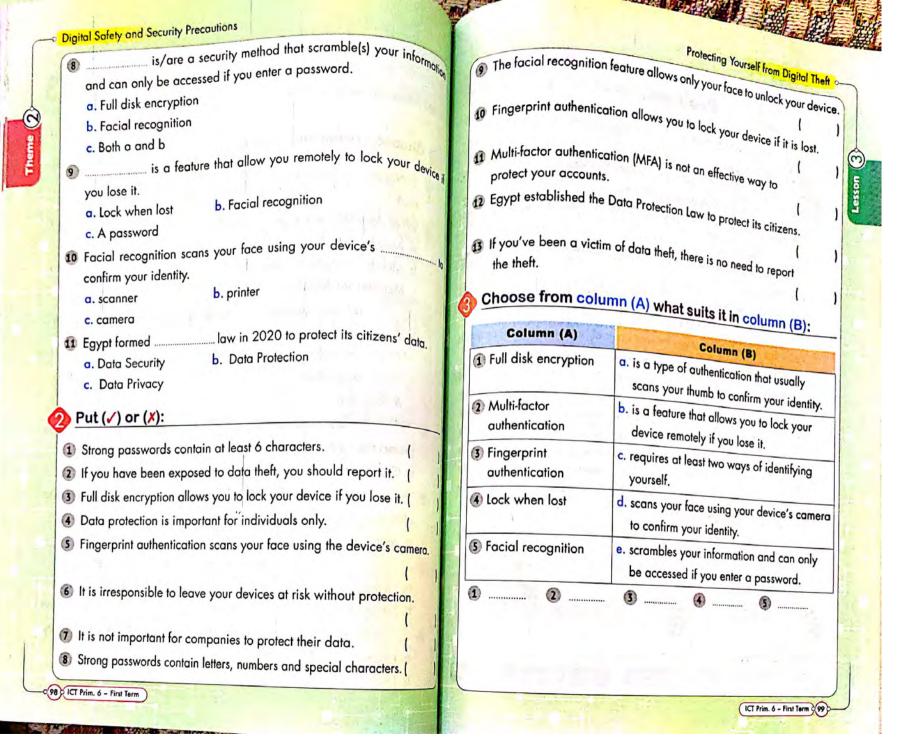
Scans your face using your device's camera to confirm your identity.

a. Fingerprint authentication

Facial recognition

a. decryption

c. Full disk encryption



Lesson

A Just Pitch

Internet Safety -Problems and Solutions

- >> You have learned a lot about online safety choices and strategies
 - 1 Use safe web browsers, such as Google (Google Chrome)
 - 2 Use antivirus protection on your devices.
- Use antivirus protection on your selection on yo social media.

 3 Do not communicate with people you don't know or who make you feet
- uncomfortable.
- 3 Do not share your personal information online. 3 Use strong passwords and change them every three months.
- Verify that the websites that you frequent are real, safe, and age-appropriate
- 3 Verify the information you find to make sure it is accurate.
- م الله نعلمت الكثير عن إجراءات الأمان على الإنترنت وإستراتيجياته. فيما بلي مراجعة سريعة:
 - التخدم متصفحات الإنترنت الآمنة مثل جوجل. واستخدام برامج الحماية من الفيروسات على أجهزتك.
 - ٨ حانظ على خصوصية صفحاتك، اسمح فقط لأصدقائك وأسرتك برؤية صفحات التواصل الاجتماعي الخاصة بك. الأشخاص الذين لا تعرفهم أو الذين يجعلونك تشعر بعدم الارتياح.
 - لا تشارك معلوماتك الشخصية على الإنترنت. استخدم كلمات مرور قوية وغيرها كل ثلاثة أشهر. و نأكُد من أن المواقع التي تتردُّد عليها حقيقية، وآمنة، ومناسبة لعمرك.
 - () تحقُّقُ من المعلومات التي تجدها للتأكُّد من دقتها.



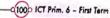


>> Here are some common issues and how to solve them:



2 Cyberbullying





Hacking

This is when weaknesses are identified and exploited in a computer system or network to gain unauthorized access to personal or organizational data.



solutions:

- Use an antivirus to do a sweep of your computer and remove any viruses.
- Onfirm your security settings are up-to-date.
- Change your passwords—your device password, email, social media, etc. It is better to change all your passwords, even if you think you have only been hacked on one particular account.
- القرصنة. يحدث ذلك عند اكتشاف ثغرات في نظام كمبيوتر أو شبكة ما واستغلالها للوصول غير المصرِّح به
 - استخدم برنامجًا لكافحة الفيروسات لمسح الكمبيوتر الخاص بك وإزالة أي فيروسات.
 - وَ تَأْكُدُ مِن أَن إعدادات الأمان الخاصة بك مُحدّثة.
- 😸 غيِّر كلمات المرور الخاصة بك كلمة المرور الخاصة بجهازك وببريدك الإلكتروني وبمواقع التواصل الاجتماعي... إلخ. ومن الأفضل أن تُغيِّر كل كلمات المرور الخاصة بك، حتى إن كنت تعتقد أن حسابًا واحدًا فقط من حساباتك

If you are exposed to hacking:

- 1 Let your contacts know. So, they avoid opening anything suspicious.
- 2 Report the hacking to a trusted adult. They can decide if further action is necessary, such as reporting it to an Internet service provider, or getting the authorities involved.

أل في حالة تعرُّضك للقرصنة:

- 🕦 أخبر جهات الاتصال الخاصة بك؛ ليتجنبوا الدخول إلى أي شيء مريب.
- أبلغ أحد الأشخاص البالغين الموثوق بهم عن تعرفنك للقرصنة: إذ يمكنهم أن يقرروا ما إذا كان اتخاذ إجراءات إضافية ضروريًّا، مثل: الإبلاغ عنه لمقدِّم خدمة الإنترنت، أو إذا كان طلب تدخُّل السلُّطات ضروريًّا.

ICT Prim. 6 - First Term (101)

Cyberbullying

>> Bullying, intimidation, or harassment of any kind is never acceptable

1

If you are a victim of cyberbullying or know someone who is being cyberbullied:

- 1 Do not respond to bullies, but ignore them completely.
- 2 Delete them from your account and block them.
- It is helpful to collect evidence to show what has been happening.
- It is neighbor to collect or social media of submit them to the social media site to have them removed.
- 6 Show a trusted adult.

و التنفر الإلكتروني: يُعتبر التنمُّر والتخويف وأيُّ نوع من المضايقة غير مقبول على الإطلاق. إذا كنت ضحية التنفر الإلكتروني، أو تعرف شخصًا يتعرَّض للتنفر الإلكتروني. 10 لا تردُ على المتتمَّرين، بل تجاهلهم بالكامل.
20 أزِلهم واحظرهم من حسابك.
30 من المفيد أن تجمع الأدلة لإثبات ما كان يحدث.

FATIL

 إلى من عبد المسائل أو المنشورات المسيئة، وأرسلها إلى موقع التواصل الاجتماعي؛ ليزيلوها. A اعرض ذلك على شخص بالغ موثوق به.

Misleading information

-)) If someone you know spreads misinformation, let them know—they may not realize they've been doing so.
-)) If they continue to post misinformation, let a trusted adult know.
-)) If you find out that information you have shared with others is inaccurate, whether for a school paper or even just sharing information with friends, let them know.
- >> This way, you stop the spread of misinformation.
-)) Be careful with what you share in the future.

العلومات المضللة:



، إنا نشر شخص تعرفه معلومات خاطئة، أخبره بذلك؛ فقد لا بدرك ما يفعله. وإنا استمرُّ في نشر المعلومات الخاطئة أخبر شخصًا بالغًا موثوقًا. الاكتشفت أن المعلومات التي شاركتها مع الآخرين غير صحيحة، سواء أكان نلك لورقة بحثية مدرسية أو حتى لمشاركة المعلومات مع الأصدقاء، أخبرهم بثك، فبهذه الطريقة يمكنك إيقاف انتشار المعلومات الخاطئة.

كُنْ حَذْرًا فيما تشاركه في المستقبل.

1020 ICT Prim. 6 - First Term

the Importance of Cybersecurity in the Internet of Things (IoT)

- Technology, such as Bluetooth speakers, is part of what is known as the
- The Internet of Things (IoT) describes physical objects (devices) that have software that can connect to other devices or systems.

Many of these objects are now being made using green technology, which also helps us to reduce our carbon footprint.

However, a big issue is cybersecurity—hackers are taking advantage, so

All household items, which are part of the IoT, should be protected the same way any computer device would be protected.

For extra security, a Virtual Private Network (VPN's) should be used these protect devices by encrypting your Internet navigation and keeping



التقنيات مثل مكبرات الصوت بالبلوتوث تعد جزءًا مما يُسمَّى إنترنت الأشياء. وهي الأغراض اللموسة التي تتمتع بجمجية يمكنها الاتصال بأجهزة أو أنظمة أخرى. تُصنع الكتير من هذه الأغراض الآن باستخدام تكنولوجيا صديقة للبيئة تساعدنا على الحد من بصمتنا الكربونية. إلا أن الأمن السابيجاني قضية كبرى، فالقراصنة يستغلون هذه الأغراض الذكية؛ وبالتالي من المهم حمايتها. يجب حماية كل الأدوات المنزلية التي ي - بي تصفّحك الإنترنت، وبإيقاء عنوان بروتوكول الإنترنت الخاص بك سريًّا.

Explanatory Information

معلومات توضيحية إضافية خارج الكتاب المدرسي

- Green technology is a type of technology that is designed to be more environmentally friendly than traditional technology. This means that it uses less energy, produces less pollution, and has a smaller impact on the environment.
- A virtual private network (VPN) is a service that keeps your Internet activity private and secure. When you use the Internet, your device sends information to different websites, and this information can be seen by hackers or companies who want to track what you're doing. But by using a VPN, your Internet activity is hidden and protected, like a secret code that only you and the website you're visiting can see.

Exercises on Lesson

Choose the correc	t answer:	
Choose the correc	find online to	make sure it is
1 You should verify informa. accurate		
 accurate Bluetooth speakers are. Al 	h IOI	
a. AlIf you shared wrong intoa. Ignore it.	b. Let beoble	ole,
Cubarbullying	b. Misleading informa	tion c. Hacking
T Id hacking keep	your security settings b. up to date	c. unchanged
a. ignore 7 You should use a/an	b. block	c. both a and b
	b. antivirus	
	b. bully them	c. block them
VPN protects devices ba. encrypting	yyour Inte b, hacking	10 4500
10 If you've been hacked	on your Facebook accou	unt, it is better to change
a. Facebook password	b. all accounts passwo	ords c. none of them

1040 ICT Prim. 6 - First Term

a. VIII	b. loT	
If you are exposed	to hacking	c. both a and b
a. Reliable informa Many modern device our carbon footprin	e false or inaccurate information b. Misinformation ees are made using	c. both a and b
a. green	b. blue	c. red
Put (√) or (X):		
CONTRACTOR STORY	on, and harassment are accep	and the same
Google Chrome is You should keep you	considered one of the safest voor pages private and limit who to tect smart devices to avoid he orized access to personal or considered access to personal or conside	veb browsers.(no can see them.
Google Chrome is You should keep you It is important to pr Hacking is an auth	considered one of the safest voter pages private and limit who to tech smart devices to avoid he orized access to personal or or	veb browsers.(no can see them. (acking. (organizational data.
Google Chrome is You should keep you It is important to pro Hacking is an auth Using safe web bro	considered one of the safest voor pages private and limit what to avoid he cotect smart devices to avoid h	veb browsers.(no can see them. (acking. (organizational data. (acking. (
Google Chrome is You should keep you It is important to pre Hacking is an authority Using safe web broadle for you are a victim. There is no way to	considered one of the safest value pages private and limit who to tech smart devices to avoid he orized access to personal or considered access to personal or consid	veb browsers. (no can see them. (acking. (organizational data. (acking. (sted adult. (otton. (
Google Chrome is You should keep you It is important to properly Hacking is an auth Using safe web brown If you are a victim There is no way to	considered one of the safest value pages private and limit where the content of the safest value pages private and limit where the content smart devices to avoid here to be content of the content of the content page of the con	veb browsers. (no can see them. (acking. (organizational data. (acking. (sted adult. (otton. (
Google Chrome is You should keep you It is important to pro Hacking is an auth Using safe web bro If you are a victim There is no way to It is safe to share you	considered one of the safest value pages private and limit who to tech smart devices to avoid he orized access to personal or considered access to personal or consid	veb browsers. (no can see them. (acking. (acking. (acking. (sted adult. (ation. (hone number online.

5 Copyright

Let's review what copyright (intellectual property rights) means!

- Copyright: It includes written, visual, audio, video, and web materials.
- >> Creative Commons: It refers to work that has been granted permission to share by the creator.
- Work in data libraries, such as the (EKB) is already approved for use.
- Public Domain: Egypt considers work public domain if the creator has been deceased for at least 50 years. No creator permission is required.

· لنُراجِع تعريف حقوق الطبع والنشر (الحقوق الفكرية)!

تشمل حقوق الطبع والنشر: للواد المكتوبة والمرشية والسمعية، ومقاطع الفيديو، والمواد من شبكة الإنترنت.

والشاء الابداء ، بشم إلى الأعمال التي مُنح مبتكرها الإنن بمشاركتها.

. الأعمال الموجودة في مكتبات البيانات. مثل بنك المعرفة المصري، سبق أن تمُّت الموافقة على استخدامها.

· تُعتبر مصر الأعمال مِلْكًا عامًا إذا كان المؤلف متوفيًا منذ ٥٠ عامًا على الأقل، وهذه لا تحتاج إذنًا من المؤلف.

Citing Sources

Lesson

- National Geographic Explorer Ms. Didi El-Behaedi cites sources and asks for permission before using images or infographics.
- >>> Even if the work has been published with permission to use, sources should still be cited.
 - المستكشفة النشطة في ناشونال جيوجرافيك ديدي البيحايدي تُوثُق مصادر المعلومات وتطلب الإذن قبل استخدام الصور والرسوم التوضيحية، حتى إذا نُشر العمل بإذن للاستخدام، يجب توثيق الصادر.



Facts that are readily provable via numerous

e sources or generally known by the public. Knowledge

المامة هي الحقائق القابلة للإثبات بواسطة مصادر عديدة أو التي يعرفها الناس عامة.

>> Common knowledge, discoveries, facts are not copyrightable. >> Someone's expressed opinions via creative work are

copyrightable, even if based on common facts.

>> For example, a discovery made by Ms. El-Behaedi is not copyrightable, but her own published thoughts and opinions about it are copyrighted.

العرفة العامة والاكتشافات والحقائق ليست محمية بحقوق الطبع والنشر. العرفة العدم المنظم من عبر العمل الإبداعي محمية بحقوق الطبع والنشر، حتى لو كانت مبنية على حقائق مشتركة. إن الآراء التي يحب . على سبيل المثال، الاكتشاف الذي قامت به السيدة البهيدي ليس محمي بحقوق الطبع والنشر، حتى لو كانت مبنية على حقائق م النشورة حول هذا الموضوع محمية بحقوق الطبع والنشر.

It is taking someone's work and claiming it as your own. الله من المناص عمل شخص ما والأدُّعاء أنه عملك الخاص

>> When someone writes a report using someone else's information, they cannot just copy/paste material they have found without citation, otherwise the original work is plagiarized.

> عندما بكتب شخص ما تقريرًا باستخدام معلومات شخص آخر، لا يمكنهم أن ينسخوا الواد التي وحدوها ويلصقونها من دون توثيق المصادر بشكل مناسب، وإلا سيكون المصدر الأساسي قد تعرُّض للسرقة الفكرية.

Digital Piracy

 It is the distribution or sharing of copyrighted material via devices and internet networks without permission.

والقرصنة الإلكترونية هي توزيع أو مشاركة المواد المحمية بموجب حقوق الطبع والنشر بواسطة الأجهزة وشبكات الإنترنت من دون إذن.

1080 ICT Prim. 6 - First Term

>>> Egypt has enacted a law that protects content creators from digital

>>> For more severe cases of digital piracy, breaking the law can result in

، لقد سنَّت مصر قانونًا لعماية مبتكري المتوى من القرصنة الإلكترونية. وفيما يتعلق بالحالات الأكثر خطورة من القرصنة الإلكترونية، فيمكن لخرق القانون أن يؤدي إلى دفع الغرامات وحتى عقوية السجن.

>>> Copyright protects creators and gives them ownership of their work.

plagiarism and digital piracy prevent creators from getting the acknowledgment they deserve for their work. It can even hurt them

>> Committing plagiarism or digital piracy also hurts the offender:

1 It hurts their reputation.

2 It could result in fines or sending to the jail.

. تحمي حقوق الطبع والنشر المبتكرين وتعطيهم حقوق ملكية أعمالهم. ب من المرقة الفكرية والقرصنة الإلكترونية المتكرين من تلقّي التقدير الذي يستحقونه لقاء أعمالهم، بل ويمكن أن تعرضهم للضرر المادي. إن ارتكاب السرقة الفكرية أو القرصنة الإلكترونية تؤذي المذنب:

0 تؤذي سمعتهم. ﴿ ﴿ وَيَعَكُنُ أَنْ تَوْدِي إِلَى دَفَعَ الْغَرَامَاتُ أَوْ عَقَوْبِهُ السَّجِنْ.

Test Yourself

Complete the following				
	Comp	lete t	he tol	lowing:

1	are facts that readily provable or generally known by the public
---	--

2 You should sources even if the work is published with permission to use.

3 Egypt considers works as public domain aftervears of the creator's death.

is taking someone's work and claiming it as your own.

is sharing copyrighted material via internet networks without permission.

are intelligent, but .. are unintelligent devices

Exercises on Lesson

A	Choose the correc	ct answer.	
Y	refers to a wor	k that has been 9	ermission to share by
4	the creator.	b. Common knowledge he public domainy	c. Plagiarism
	death.	b. 40 press opinions are,	c. 50
	a. copyrightable	b. not copyrightable before using images or ir b. ask for permission	c. both a and b
1	Plagiarism and digital	b. the offender	c. both a and b
	Using someone 's inform	b. not copyrightable mation in a report without b. authorization	is plagiarism.
	A book published online a. copyrightable Severe cases of digital pi	e in 2024 is b. not copyrightable racy and breaking the law o	c. both a and b
-		b. jail timeprinted and digital contenb. copyright	
11		provable via numerous sou	
	a. Misinformation	b. Commor knowledge	c. Plagiarism

is taking someone's work and all	Copyright o-
is taking someone's work and claiming it as a. Creative Commons b. Common knowled	s your own.
a. Creative Commons b. Common knowledge is the distribution or sharing of copyrighted and internet without permission.	c. Plagiarism
and internet without permission.	material via devices
a. Plagiarism b. Digital Piracy	
> Put (✓) or (×):	c. Citation
plagiarism is copying someone else's work as your	
2 Copyright includes only written and visual material	own. ()
3 You should cite sources if you use other's works.	s. ()
Common knowledge is copyrightable.	()
(5) Plagiarism and digital piracy can hurt creators finan	()
6 You can use images or infographics of others without	ncially. ()
their permission.	ut asking
7 People's opinions are copyrightable.	()
Copyright does not protect creators and does not gi	()
them ownership of their work.	ive
Works in the public domain requires the creator's per	()
TYORKS III III POSITE COMMITTE CHARLES THE CHARLES THE	ermission for use.
10 Digital piracy is sharing non-copyrighted material vi	1 1
the internet networks.	10
In Egypt, works enter the public domain 50 years al	()
the creator's death.	1
12 Plagiarism and digital piracy hurt creators and the c	offender too
Plagiarism and algital piracy flutt credios and the c	/ / /
© DI	getting
13 Plagiarism and digital piracy prevent creators from	gennig ()
the acknowledgment they deserve.	notors 1
Egypt has established a law that protects content cre	()
from digital piracy.	ICT Prim. 6 - First Term (11)

(N)

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
Digital piracy	 a. protects creators and gives them ownership of their work.
2 Creative common	b. is the distribution or sharing of copyrighted material without permiss
3 Copyright	c. is a work that has been granted permission to share by the creator.
4 Common knowledge	d. taking someone's work and claiming your own.
5 Plagiarism	e. facts that known by the public.

Answer the following:

Read the examples below. Are they most likely copyrighted or not?

- 1 A poem written in 1865.
- A short story recently published online.
- 3 A photographer's series of photos published in a magazine.
- 4 A series of photographs available on the EKB.

Copyrighted ©	Not Copyrighted @

Lesson

Using Web Browsers for Research

Microsoft Edge

Microsoft Edge, Mozilla Firefox, and Google Chrome are popular

- . مايكروسوفت إيدع وموزيلا فايرفوكس وجوجل كروم هي منصفحات ويب مشهورة. ملیکروسوانت ایسج وسوزید نایرنویس وجوجی مدوری ، ملیکروسوانت ایسج و مدورید نایرنویس وجوجی مدوری ، ملیکروسوانت ایسج و مدورید نایرنویس وجوجی مدورید ، ملیکروسوانت ایسج و مدورید نایرنویس وجوجی ایست و مدورید ، ملیکروسوانت ایسج و مدورید نایرنویس وجوجی ایست و مدورید ، مدورید نایرنویس وجوجی ایست و مدورید ، مدورید ، مدورید نایرنویس و مدورید ، مدورید ،
- Collections: Keep track of what you find and includes a Citations option, click on this feature and Edge will automatically create a citation for the source.



- 3) Tab groups: Organizes tabs by topic or interest. They can be labeled
- >> Vertical tabs: Can switch from horizontal tabs to vertical, so they can be viewed and managed as needed.
-) OneDrive: Provides direct cloud storage.

- . شريط الواقع الإلكترونية الملخلة: يحفظ المواتع الإلكترونية كمُفضِّلات لتوفير الوصول السريع إليها.
- · للجموعات: تحفظ ما تعثر عليه، وتحوي خاصية التوثيق. انقر على هذه الخاصية «المجموعات» وسينشئ

- علامات التبويب العمودية: يمكن الانتقال من علامات التبويب الأفقية إلى الرأسية؛ لكي تتمكن من عرضها والتحكم

 - رن برايف: يُوفُر تَحْزِينًا سِمانيًا مِباشرًا.

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ICT Prim. 6 - First Term (113)

[·

Mozilla Firefox

>> Bookmark Tabs: Save websites that are useful as a bookmark to provide quick access. >> Firefox Notes: Allows users to keep notes on



>>> Firefox Pocket: Can save results (text, audio, or video) here.

>> Cite Thisl: Provides help creating citations for sources.

>> Cite Thist: Provides neip Creaming
>> Cloud storage: Does not have their own, but allows access to Google Drive and OneDrive.

مرزيد عن - مربعية المرجعية: تحفظ المواقع الإلكترونية كإشارات مرجعية لتوفير الوصول السريع إليها. ، علامه ببويب . و اللاحظات من فايرفوكس: تسمح للمستخدمين بالاحتفاظ بالملاحظات على أيّ صفحة ويب يزورونها. اللحفات من فاير فوكس: تحفظ فيه النتائج (النصوص، والمقاطع السموعة، ومقاطع الفيديو). . رأي هذاا: يُوفِّر المساعدة في إنشاء توثيقات للمصادر.

، ربق هست من . والتخزين السحابي: لا يملك واحدًا خاصًا به، لكن يسمح بالوصول إلى جوجل درايف وون درايف.

Google Chrome

- >> Bookmark Tabs: Save websites that are useful as a bookmark to provide quick access.
- >> Find feature: Use by typing in keywords to search for specific information.
- >> Google Citation: Can do advanced searches using academic sources and helps create automatic citations of the sources.
- >> Google Drive: Allows web content to be saved directly to it while browsing.
- >> Google Keep: Can save web addresses, images, articles, etc. Can also take notes on the content being viewed and adds labels to notes.

جوجل كروم

وعلامة تبويب الإشارة المرجعية: تحفظ المواقع الإلكترونية كإشارات مرجعية؛ لتوقير الوصول السريع إليها. ميزة البحث: استخدم هذه الميزة بكتابة كلمات مفتاحية للبحث عن معلومات مُحدِّدة.

· التوثيق من جوجل: يسمح بإجراء أبحاث متقدمة باستخدام مصادر أكاديمية، ويساعدك على إنشاء توثيقات

· جوجل درايف: يسمح بحفظ محتوى الويب مباشرة فيه أثناء التصفح.

جوجل كيب: يمكنه حفظ عناوين الويب، والصور، والمقالات... إلخ، كما يمكنه تدوين الملاحظات على المحتوى المعروض، وإضافة الوسوم إلى ملاحظاتك.

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Accessibility Features:

- >> All three browsers have inclusive web accessibility features, such as:
 - 1 Enlarged text options.
 - 2 Text that is read aloud.
 - Screen readers that describe screen images.
 - 4 Voice-to-text features for speaking commands.

All three browsers have protection against threats with:

Anti-phishing and malware software

Pop-up blockers

Privacy options

>> These features help users avoid third-party tracking.

ميزات سهولة الوصول: تشمل متصفحات الويب الثلاثة ميزات سهولة الوصول إلى الويب، مثل:

امكانية تكبير النص.

ميزات تحويل الصوت إلى نص لإعطاء الأوامر المنطوقة.

الشاشة لتصف الصور.

• تحوى هذه المتصفحات الثلاثة حماية ضد التهديدات مع برامج لكافحة التصيد الاحتيالي والبرمجيات الخبيثة، ومانعات الإطارات المنبثقة، واختيارات للخصوصية تساعد المُستخدمين في تجنُّب التعقُّب من الجهات الخارحية.

Test Yourself

Complete the following:

- are popular browsers.
- provides direct cloud storage in MS Edge.
- helps create citations for sources in Firefox.
-helps create automatic citations for sources in Chrome.
- 6 Browsers have accessibility features, such as, and

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Lesson

Exercises on Lesson

Choose the corr	ect answer:	
All of the following of	are web browsers, except	
visited.	I Tabe	c. Firefox Pocket
in	b. Mozilla Firefox ites as a favorite to prov	c. both a and b
Edge.	b. Favorites bar es as a bookmark in Googl	c. OneDrive
Firefox using	b. Bookmark Tabs	c. Firefox Notes to it while browsing.
a. Google Citation	b. Google Drive what you find online and inc	c. both a and b
a. Collections 8 is a feature to	b. Favorites bar hat provides help create	
Firefox, a. Cite This g	b. Google Citation resses, images, articles, et	
too.	b. Google Keep	

is a cloud a	Using	Web Browsers for Research
store and access you a. Collections a. Collections 11 The web browser the a. Microsoft Edge 12 It can search academ in Chrome, a. Google Citation 13 Mozilla Firefox allows a. OneDrive 14	b. Google Keep b. Google Drive	c. OneDrive loud storage is
and can be colored for a. Tab groups 15 In Mozilla Firefox,	b. Favorites bar	
 Mozilla Firefox has its Microsoft Edge is the o All browsers have a po Google Keep can save v Microsoft Edge, Mozilla search engines. Browsers, like Chrome and malware software. 	nly safe web browser. p-up blockers feature, e veb content, take notes, o a Firefox, and Google C and Edge don't have an	and add labels. () Chrome are popular () ati-phishing
 You can't access Google Microsoft Edge doesn't screen images. Microsoft Edge doesn't Web browsers, such as options. 	contain screen readers provide cloud storage.	that describe ()
178 - 1		KT Prim. 6 - First Term (117)-

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- 11 You cannot keep notes on any web page you visit in Mozilla Firefox,
- 12 You can save websites that are useful as a bookmark in Chrome.
- 13 Chrome doesn't have a voice-to-text feature that lets you speak commands.
- Collections feature in Microsoft Edge includes automatic citation for sources.
- 15 Firefox Notes allow users to keep notes on any web page visited.
- 16 Web browsers have privacy options to protect users' privacy from being tracked.
- in Microsoft Edge, you can switch from horizontal to vertical tabs and vice versa.
- 18 Cite This feature provides help creating citations for sources in Microsoft Edge.
- Microsoft Edge, Mozilla Firefox, and Google Chrome have protection against threats.
- Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 OneDrive	 a. provides Cite This! feature that helps created citations for sources. b. saves websites as a favorite for quick accordine Edge. c. one of the accessibility features in webbrowsers. 	
Voice-to-text feature		
3 Pop-up blockers		
4 Mozilla Firefox	d. provides direct cloud storage.	
5 Favorites bar	e. are a protection feature in web browsers.	
① ②	3 (5)	

Lesson 7

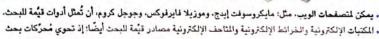
Evaluating Sources

How to Evaluate the Reliability of a Source?

- Credibility: Does the author or organization have credibility based on their background and experience?
- Opinions: Does the source contain only opinions with little to no factual evidence?
- Biased: Is the author biased, or unfairly for or against an idea, when presenting information?
- Unbiased: Is the author unbiased, or objective, when presenting information?
- » Relevance: How current and relevant is the information?
- Facts and Evidence: Does the source contain only factual evidence with no opinions?
 - المسدانية: هل يتمتُّع المُؤلُّف أو المنظمة بالمصدانية بناءٌ على خلفيتهما وخبرتهما؟
 - الأراء: هل يحوي المصدر آراء فقط مع القليل من الأدلة الواقعية؟
 - التحبُّر: هل المؤلف متحبُّر أو غير منصف تجاه أو ضد فكرة معينة عند تقديم المعلومات؟
 - >> عدم التحيُّر: المُؤلِّف غير متحيَّر أو موضوعي أثناء تقديم المعلومات.
 - W الارتباط بالمرضوع ما مدى حداثة العلومات وارتباطها بالموضوع؟
 - المقائق والأدلة: هل يحوي المصدر مراجع مُوثُقة بدون دعم أي رأي؟

Online Research Tools

- Web browsers, like Microsoft Edge, Mozilla Firefox, and Google Chrome
- Online libraries, e-maps, and e-museums
- >>> They include specialized search engines and sources that you can review.
- >> The EKB includes safe and accurate sources.



متخصصة ومصادر خاصة بها يمكنك معاينتها. . بنك المعرفة المعري يحتوي مصادر موثوقة ودقيقة.



Citing Sources

>> It is important to cite your sources whenever you use material from the previous resources.



>> Be sure to include the website name and URL in your citation.

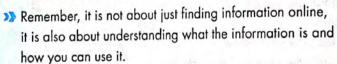
من المهم أن تذكر (توثق) مصادرك كلما استخدمت مواد من المصادر السابقة. ، من المحالف الموقع الإلكتروني والرابط الخاص به في توثيقك، متى أمكن ذلك.

Evaluating Sources

- >> It is important to evaluate the source of the information.
- >> The source will tell you how reliable the information is and if you can trust the information.
- >> There are many ways to evaluate the source.

من المهم أن تُقيِّم مصادر المعلومات؛ إذ سيكشف لك المصدر مدى صحة المعلومات، وما إذا يمكن الوثوق مصداقيتها أم لا. هناك طُرُق مُتعدُّدة لتقييم المصدر.

- >> When using a source to support your opinion, position, or argument, make sure it's relevant.
- >> A source may be credible but not relevant to your message. Therefore, it wouldn't be a good choice.



• تأكُّد عند استخدام مصدر لدعم رأيك أو موقفك أو حجتك أنه ذات صلة. قد يكون المصدر موثوقًا ولكنه غير ذي صلة برسالتك؛ ولذلك لن يكون اختيارًا جيدًا. • تذكُّرُ، لا يقتصر الأمر على العثور على المعلومات عبر الإنترنت، بل على فهم ماهيَّة المعلومات وكيفية استخدامها.

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Exercises on Lesson 7

If the source conto source.	ins only opinions with almost	t no facts, it will be a/c
	b. unreliable	c. trustworthy
	ources are when using	
a. relevant	b. biased	c. interesting
3) means tha	t the author is fair, when pres	enting information
a. Biased		c. Relevance
4) Be sure to include	thein your citation.	
a. website name	b. URL	c. both a and b
5) include spe	cialized search engines and so	urces that you can revie
a. E-maps	b. Online libraries	c. both a and b
6) You have permissi the original	on to copy information from all sources.	the EKB, but it should
a. ignore	b. cite	c. attach
 Online libraries, e engines. 	-maps, and e-museums, inclu	desearch
	b. specialized	c. kids
	on online is also about unders	standing thean
 a. information 	b. search engine	c. opinions
Put (√) or (X):		
1) It is not important	to cite your sources.	(
	safe and accurate sources.	1
3) There is only way	to evaluate sources.	1

- 4 You should cite your sources even if you are allowed to use them. (
- 5) If the information is current and relevant, it is more likely
- 6 Some sources may be credible, but not relevant to your topic. to be reliable.
- The state of the state of the state of the True of the
- 8 Evaluating the source of information is not important for determining its reliability.
- 9 Online libraries, e-maps, and e-museums includes general search engines.
- 10 It is important to include the website name and URL in your citation.
- 11 The author or organization should have credibility to ensure the source is credible.
- 12 When the source is credible and not relevant to your message, it will be a good choice to use.
- 13 Microsoft Edge and Mozilla Firefox are web browsers, while Google Chrome is a search engine.

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 Relevance	a. does the author or organization have credibility based on their background and experience?
② Unbiased	b. does the author biased, or unfairly for or against an idea, when presenting information?
3 Facts and Evidence	c. does the author is unbiased, or objective, when presenting information?
4 Biased	d. does the information is related to your search?
5 Credibility	e. does the source contain only factual evidence with little to no opinions?
(i) (ii)	3 (5)

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Lesson

Sharing and Evaluating Information

-) It's time to use your research to share your thoughts about a social issue.
- Support your opinions with facts from reliable sources to persuade readers. لقد حان الوقت لاستخدام بحثك لمشاركة أفكارك حول قضية اجتماعية. عليك دعم آرائك بالحقائق من مصادر موثوقة لإقناع القُراء.

Persuasive Writing Tips نصائح للكتابة الإقناعية

1 Be fair!

-)) If you do not show bias, your opinion will be taken more seriously.
- » If you show unfair bias, your opinion may not be taken seriously or trusted.
- » Be sure to share another possible side if it is relevant to your social issue.

، إذا لم تُظهر تحدُّزًا سيُؤخذ رأبك بحدية أكبر، إذا شاركت وجهة نظر تُظهر تحدُّزًا غير منصف، يمكن ألا يؤخذ رأيك بجدية وألا يكون موثوقًا به. احرص على مشاركة رأى آخر مُحتمَل إذا كان يتعلُّق بقضيتك المجتمعية.

Use your sources!

-) Use your researched information to provide relevant, factual support to backup your opinion.
- >>> Be sure to credit your sources properly.
- >>> Be sure your citations include accurate information that can be properly traced back to the source.



- استخدم المعلومات التي بحثت عنها لتقديم دعم من الواقع مرتبط برأيك...
 - احرص على توثيق مصادرك بطريقة صحيحة.
- احرص على أن تتضمن توثيقاتك معلومات دقيقة يمكن تتبعها رجوعًا إلى المصدر.

3 Be passionate!

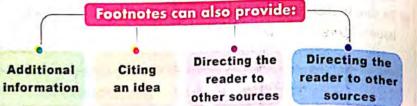
Showing passion shows that you take the matter seriously and that you are being sincere about your views when presenting.

كُن شغوفًا!

من الشغف، عند عرض رأيك، يُظهر جديتك حيال الموضوع ومصداقية آراتك.

Footnotes:

- >>> Footnotes are like citations, except they are set at the bottom of each page where ideas are introduced.
- >> They often include more specific information about what page or location you can find that exact information.



الحواشي السفلية

و تشبه الحواشي السفلية التوثيقات، إلا أنها تُوضَع في أسفل كل صفحة حيث تُقدَّم الأفكار، وغالبًا ما تحوي معلومات أكن دقة عن الصفحة أو الموقع الذي ستجد فيه هذه المعلومات.

م يمكن أن تُقدُّم الحواشي السفلية أيضًا:

-معلومات إضافية. - توثيق فكرة. -إرشاد القارئ إلى مصادر أخرى. -التوسُّع في القراءات.

1

Evaluating information shared by others

- >> It is important to evaluate the information that others share in the same way you would evaluate the sources you find online.
 - Does the writer support opinions with facts?
 - Does the writer show bigs or fairness?
 - What online sources did the writer use? Were the sources cited?
 - Review the online sources used and cited. Are the sources reliable?
- >>> Evaluating sources is an important part of being a responsible digital citizen.
- >> It helps stop the spread of misinformation that can so easily and quickly be shared with others online.
 - و من المهم تقييم المعلومات التي يُقدُّمها الآخرون كما تقيم المصادر التي تجدها عبر الإنترنت.
 - هل يدعم الكاتب الآراء بالحقائق؟
 - هل يُظهر الكاتب التحيُّز أم العدل؟
 - ما المصادر عبر الإنترنت التي استخدمها الكاتب؟ هل وُتُقت تلك المصادر؟
 - راجع المصادر المُستخدَمة والموثّقة من الإنترنت. هل المصادر موثوقة؟
 - تقييم المصادر جزء مهم من كونك مواطناً رقعيًا مسئولًا، فذلك
 يساعد على إيقاف انتشار المعلومات الخاطئة التي يمكن مشاركتها
 مع الآخرين يسرعة وسهولة شديدة عبر الانترنت.

Test Yourself

Complete the following:

- 1 You should support your opinions with to persuade readers.
- 2) Unfair bias may make your opinion
- Footnotes are like ______, except they are set at the ______
 of each page.
- sources stop the spread of misinformation.

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Here's the footnote.

²Specifically, I'd write comments in this one.

Exercises on Lesson 8

4	Choose the correct	answer:	
	1 The process of providing		s called
	III	, except they are set at t	he bottom of each page
		h dijojulion	2117
	3 is the person wh		
	and ethical way.	b. Digital student	c. Digital citizen
	Footnotes are like citation	ns, except they are set at t	ne of each page
١	g top	b. bottom	c. lell
3	(5) Showing when p	resenting, shows that you	are being sincere about
	your views. a. passion	b. confusion	c. fear
	6 Checking the accuracy,		of information is called
	information.		
	0		c. evaluating
	7 One of the tips for persu	asive writing is to	
	a. be fair	b. be passionate	c. both a and b
	8 The false or misleading called	information that can be	easily shared online is
	a. information	b. misinformation	c. disinformation
	melps stop the sp others.	read of misinformation	that can be shared with
	 Evaluating sources 	b. Summarizing	c. both a and b
	10 Footnotes are set at the b the reader to	pottom of each page to	cite ideas and directing
	a. other sources	b. further reading	c. both a and b
-	11 The benefit of evaluating	information before sha	ring it online is
1	a. it helps stop the sprea	d of misinformation	g
1	b. it helps check the cred	dibility of the source	c. both a and b
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Put (✓) or (✗):		
1) Evaluating sources is part of being a responsible digital citizen	. (1
If you snow bias, Your opinion will be taken seriously	,	í
3) Footnotes help direct the reader to other sources or to cite an	1	,
4) It is impossible to stop the spread of false information that ca	1	- 1
be shared online	",	١
5 Footnotes can cite an idea but not provide additional information	ation.	,
6 It is necessary to cite your sources correctly	()
7 You should use irrelevant sources to back up your opinion.	(1
8 Footnotes are notes at the ten of a new that we have	(
8 Footnotes are notes at the top of a page that provide additional information.	nal	
Being passionate about your opinion indicates that you are	1	. 19
serious about it.	,	
10 It's important to evaluate shared information as you would	,	
evaluate online sources	1	
11 You should include accurate information in your citations	,	
such as the name, and URL.	1	
Complete the following sentences using the w	ords	
between the brackets:		
(fair - biased - digital citizen - Footnotes - citations)		
1) are like citations, except they are set at the bottom of	each p	age
2) Beingis one of the persuasive writing tips.		
3 Be sure your include accurate information to be pro	perly tr	ace
back to the source.		
Evaluating sources is an important part of being a responsi	ble	
If you are when presenting your idea, your opinion		
taken seriously or trusted.		

SUMPLEY OF Theme Digital Safety and Precoutions

Lesson

- » Raghda (Didi) El-Behaedi:
- She is a National Geographic Explorer. She is a PhD student in Egyptian Archaeology at University of Chicago
- >> She has worked as a remote sensing research consultant at NASA.
- >> She has worked as a remove the Memphis-Kom el-Fakhry Archaeological Project (Egypt)
- 3) she uses geospatial technologies, such as GIS, RS and GPS. 3) She's studying how ancient Egyptians dealt with decreasing water in Lake
- Moeris in Fayum.
- >> Ms. El-Behaedi uses remote sensors in her work.
- >> The remote sensors: they are special cameras placed on satellites, drones, and planes that collect electromagnetic radiation reflected from the Earth's surface
- Ms. El-Behaedi uses machine learning to find unknown archaeological sites
- Ms. El-Behaedi protect her information by:

Installing an antivirus

Using strong passwords

Backing up data frequently

-) The characteristics of Ms. El-Behaedi as an integral scholar:
 - 1 She learns from other scholars.
- 2 She gets information from trusted sources.
- 3 She cites sources
- She asks for permission to use other's images or infographics.
- Ms. Didi El-Behaedi prefers to use JavaScript for many reasons:
 - 1 It works on all computers and mobile phones.
 - 2 It can be used with other programming languages, such as HTML.
 - 3 It makes web pages interactive with dynamic content.
-) JavaScript was used to build YouTube, Facebook, Amazon.
- >> El-Behaedi and her team was able to create a great geospatial app called PRISM using JavaScript.





- >> Tips to be socially, intellectually, and ideologically responsible citizen online. 1 Socially:
- Do not share personal information online to avoid hacking, harassment, and bullying.
- Some behaviors can lead to hurt feelings or legal action, such as bullying, disregarding privacy and Not watching your tone.
- Intellectually:
- It's immoral to post others' ideas as your own.
- Not checking source reliability can spread misinformation.
- Intellectual misbehavior can discredit you or lead to legal action.
- 3 Ideologically:
- It's great to be passionate about a social issue, but some behaviors are not ideologically responsible.
- This behavior can lead people to distrust your information and lose interest in the issue.
- >> Tips to be safe online:
- 1) Only play games and chat with people you know and trust.
- 2 Don't put personal information, online.
- 3 Don't use a web cam unless your settings are private.
- Always ask adults before you download or click on links
- 6 Manage your time responsibly!

Lesson 3

- >> There are many ways to protect your devices such as:
- 1 Passwords: They are 8+ random letters, numbers and symbols.
- 2 Multi-Factor Authentication (MFA): It requires at least two ways of identifying yourself.
- 3 Fingerprint authentication: It will scan your finger, usually thumb to confirm yourself.
- 4 Facial recognition: It will scan your face using the device's camera to confirm yourself.



SUMMARY on Theme 2

- 5 Full Disk Encryption: It scrambles your information and is accessible only with a password on your device.
- Lock When Lost: It allows your device to lock it if you lose it, usually be a lock with a lock wi logging in to your Google or iCloud account.
-) In 2020, Egypt formed the Data Protection Law to protect its citizens) It requires companies to use strict security stands to protect their data
- >> Companies and individuals should report data theft immediately.

Lesson 4

- >>> Remember online safety choices and strategies, such as:
 - 1 Use safe web browsers, antivirus, strong passwords changed every 3 months
 - 2 Do not share personal information online and protect your privacy.
 - 3 Do not communicate with people you don't know.
 - Verify websites are real, safe, and age appropriate.
 - Serify information you find is accurate or not.
- Hacking: Unauthorized access to personal or organizational data
- >> Solutions:
- 2 Update your security settings. 1 Use an antivirus software.
- 3 Change all of your passwords.
- >> IF you exposed to hacking:
 - 1 Let your contacts know.
- 2 Report the hacking to a trusted adult.
- Cyberbullying
- >> Solutions:
 - 1 Ignore bullies completely.
- 2 Block them.
- 3 Collect evidences (screenshots).
- Show a trusted adult.
- Misleading information
-)) Inform the people spreading misinformation, if they continue, tell a trusted adult. This way will stop the spread of misinformation.

1300 ICT Prim. 6 - First Term

- The Internet of Things (IoT): Describes household items which can connect to other devices or systems.
- Green technology is now used to make objects, reducing our carbon footprint.
- For extra security, Virtual Private Network (VPN) should be used.

Lesson 5

- >> Copyright: It includes written, visual, audio, video, and web materials.
- Creative commons: It refers to work that has been granted permission to share by the creator.
-) In Egypt, works enter the public domain 50 years after the creator's death.
-)) It is important to cite sources and ask for permission.
- >> Common knowledge: Facts that are provable via numerous sources or generally known by the public.
-) Common knowledge is not copyrightable.
- >> Plagiarism: It is taking someone's work and claiming it as your own.
- Digital piracy: It is the sharing of copyrighted material without permission.
- >>> Plagiarism and digital piracy prevent creators from getting the acknowledgment they deserve for their works, it can even hurt them financially.
-) Committing plagiarism or digital piracy also hurts the offender.

Lesson 6

Microsoft Edge, Mozilla Firefox, and Google Chrome are popular web browsers.

	Microsoft Edge	Mozilla Firefox	Google Chrome
Saving websites	Favorites bar	Bookmark Tabs	Bookmark Tabs
Cloud storage	OneDrive	Does not have their own	Google Drive

SUMMARY on Theme 2

Taking notes on	Collections	Firefox Notes	Google Keep
content		Cite This!	Google Citation
Citation	Collections	uph accessibility fe	eatures.

-) All three browsers have inclusive web acce. >> All three browsers have protection against threats.

Lesson

- >> You can check the following to evaluate the reliability of a source:
 - Credibility
- Opinions
- - 6 Relevance
- 6 Facts and Evidence
- Unbiased >> Online research tools, such as:
 - 1 Web browsers
 - 2 Online libraries, e-maps, and e-museums include specialized search engines.
- >> Be sure to include the website name and URL in your citation.
- >> It is important to evaluate the source of the information.
-) A source may be credible but not relevant. So not be a good choice.

Lesson 8

>> Persuasive writing tips:

- 1) Be fair, unfair bias can make your opinion less credible.
- 2 Support your opinion with researched, factual information. Credit sources and ensure citations are accurate.
- 3 Be passionate, passion shows sincerity and seriousness about your views
- 4 Footnotes, like citations, but they are at the bottom of each page and include specific information about sources, additional information, and further reading.
- >> Evaluating sources is an important part of being a responsible digital citizen.





Choose the correct answer:

- 1 If you are exposed to cyberbullying, it is recommended to the bullies
 - a. ignore
- b. block

- c. both and b
- Ms. Didi El-Behaedi has worked as a remote sensing research consultant at.....
 - a. NASA
- b. National Geographic c. programmer
- 3 One of the tips for persuasive writing is to
 - a. be fair
- b. be passionate
- c. both a and b
- - a. 4

- c. 8
- save(s) websites as a favorite to provide quick access in MS Edge.
 - a. Collections
- b. Favorites bar
- c. OneDrive

Put (√) or (x):

- 1 To avoid danger, you should put personal data online.
- There is only one way to evaluate the sources.
- 3 Plagiarism and digital piracy hurt creators and the offender too.()
- Collections feature in Microsoft Edge includes automatic citation for sources.
- Bullying, intimidation, or harassment is acceptable behavior. (

ICT Prim. 6 - First Term (133)

	umn (A) what suits it in column (B)
Column (A)	a. One of the Accessibility Features in web bro
1 Being fair	b. is taking someone's work and claiming i
2 Pop-up blockers	wour own.
C. abuso	are facts that known by the public.
3 Voice-to-text feature	d. is one of the persuasive writing tips.
Plagiarism	entection feature in web browser
(5) Common knowledge	e. are a protection realers in the browser

Choose the correct answer:

Put (✓) or (X):

1340 ICT Prim. 6 - First Term

JavaScript doesn't work on mobile phones.
 People's opinions are copyrightable.

ĭ	Sharing personal inform	nation online can lead to	
1	a. safety	b. hacking	c. both a and b
	2 You should use a(an)	to protect you	r device and remove
	any viruses. a. firewall	b. antivirus	c. antihacker
-	3refers to w	rork that has been granted p	permission to share by
1	the creator.		The same of the sa
1		b. Common knowledge	
	feature in page they visit.	Firefox allows users to ke	ep notes on any web
	a. Firefox Notes	b. Bookmark Tabs	c. Firefox Pocket
	(5) Be sure to include the	in your citation	١.
	a. website name	b. URL	c. both a and b

3 Footnotes can cite an idea, but not provide additional information.

If you show bias, youData protection is imp	portant for only individuals	
petween the blac		
	Script – machine learning Full disk encryption)	
Playing online games	may expose you to	
3 Ms. El-Behaedi uses	to refer to others' w to find previously unkno	ork in your reports.
makes w scramble you enter a password	es your information and c	dynamic content. an only be accessed if
Choose the corre		
Not evaluating the so	urces may lead to the spre	
	cation (MFA) requires at leas	c. facts stway(s) of
a. one	b. two	c. three
3 A book published on	line in 2024 is	
	b. not copyrightable	
♠allows v	veb content to be saved dire	ectly to it while browsing
a. Google Drive	b. Google Citation	c. both a and b
Online libraries, e-m engines.	naps, and e-museums, incl	udesearch

ICT Prim. 6 - First Term (135)

Put (√) or (X):

- Good scholars always cite their sources.
- 2 You should use irrelevant sources to back up your opinion.
- 3 In Egypt, works enter the public domain 50 years after the creator's
- Ms. El-Behaedi doesn't use artificial intelligence in her work.
- 5 Evaluating sources is a part of being a responsible digital citizen.
- Complete the following sentences using the words between the brackets:

(One Drive - Copyright - VPN's - hacking - Creative Commons)

- 1 protects creators and gives them ownership of their work
- 2 protect devices by encrypting your internet navigation.
- 3 is a work that has been granted permission to share by the creator
- Opening unsafe links expose you to.......
- 5 provides direct cloud storage.



Choose the correct answer:

- is taking someone's work and claiming it as your own.
 - a. Creative Commons b. Common knowledge c. Plagiarism
- 2) Footnotes are like citations, except they are set at the of each page b. bottom c. left a. top
- 3 Ms. El-Behaedi's team creates geospatial app called PRISM using
 - b. JavaScript c. python a. HTML
- is a type of authentication that uses your fingerprint to confirm your identity.
 - a. Fingerprint authentication
 - b. Facial recognition

- c. Password
-means that the author is fair, when presenting information.
 - a. Biased
- b. Unbiased
- c. Relevance

3 Digital piracy c. protects printed and digital content. (4) Mozilla Firefox d. like citations, except they are set at the bottom of each page. e. is the sharing of copyrighted material without permission. (5) Copyright Model Exam Choose the correct answer: 1 Ms. El-Behaedi's team creates geospatial app called ... JavaScript. c. PRISM a. Debris Tracker b. NASA

2) The false or misleading information that can be easily shared online is

b. misinformation

It is not necessary to manage your time responsibly.

Hacking is an authorized access to personal or organizational data.

You can save websites that are useful as a bookmark to provide

(5) You should not cite your sources if you are allowed to use them.

citations for sources

Choose from column (A) what suits it in column (B):

Column (B)

b. saves websites as a favorite for quick access in Edge.

a. provides Cite This! feature that helps creating

1) It is important for companies to protect their data.

Put (√) or (x):

quick access.

Column (A)

called

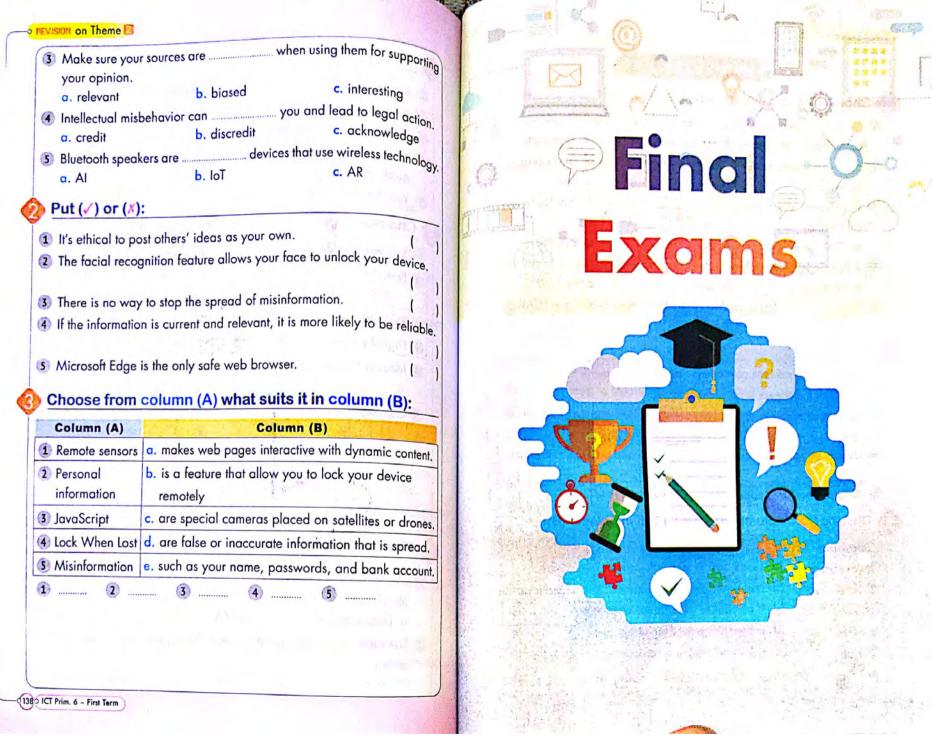
a. information

1 Favorites bar

2 Footnotes

c. disinformation

ICT Prim. 6 - First Term 0(137)



Choose the correct answer:

- enables your phone or laptop to create holograms.
 - c. Bluetooth a. Artificial intelligence b. Virtual reality
- 2are computers that have large amounts of data storage.
 - c. Hubs b. Servers a. Switches
- model of what looks like the 3 Augmented reality shows a/an ... real world.
 - b. 3D a. 2D

- c. invisible
- - c. the CPU b. Linux a. Android
- 5 The _____ tag is used to create the largest heading in HTML
 - a. <h1>

b. <h6>

c. <L1>

Put (√) or (X):

- 1 Good digital citizens post others' ideas as their own.
- 2 Ms. Didi El-Behaedi is an archaeologist.
- 3 You can learn HTML by viewing online tutorials and YouTube videos
- 4 User experience describes how people use and evaluate a product
- S All browsers have pop-up blockers feature, except Firefox.
- Choose from column (A) what suits it in column (B):

Column (B)	
a. sends data to all the devices on the network.	
b. is a network device that passes data to a specific device.	
witch c. is a dynamic web design languages.	
d. is used to create static webpages.	
e. help blind people by converting text to audio.	

1400 ICT Prim. 6 - First Term

Model Exam 2

Choose the correct answer:

- 1 Passwords that contain at least 8 characters are a. useless
 - b. less secure c. more secure
- (2) A 3D image that you can see without special glasses is called ... a. artificial intelligence b. a hologram c. navigation
- 3 Taha Hussein Library has special . to convert text into audio.
 - a. printers b. scanners
- c. speakers

c. blocked

- 4 You can use the shortcut to copy text or image in windows. a. "Ctrl + C"
- b. "Cmd + C" c. "Ctrl + X" 5 VPN protects devices by keeping your IP address
 - a. public b. private

Put (/) or (x):

- HTML is used to create dynamic web pages.
- Ports are holes on devices where physical cables are plugged in. (
- Uber app uses artificial intelligence to match riders with available drivers.
- Anyone can read and modify the code in closed-source software.
- (5) If you are a victim of online bullying, talk to a trusted adult.

Complete the following using the words between the brackets: (Machine learning - IoT - Plagiarism - Lock when lost - VPN)

- .. is taking someone's work and claiming it as your own.
- protects your devices by encrypting your internet navigation.
- is a type of artificial intelligence.
- allows you to lock your device if it is lost.
- are household items that can be a part of a network.

Choose the correct answer:

a, human-computer interaction b. artificial intelligence c. both of them

is an open-source software for building robot applications

c. Android b. ROS a. iOS

confirms your identity by scanning your thumb. a. Fingerprint authentication b. Facial recognition c. A password

.... is a computer which provides services to other computers.

h network c. switch a. server

S Copying information from the EKB is allowed, but it should the sources.

a. ignore

b. cite

c. plagiarize

Put (✓) or (X):

HTML tags have three main parts.

2) The integral scholar shouldn't learn from other scholars.

Computers can learn by analyzing the provided examples.

Hubs are intelligent devices, but switches are unintelligent.

Evaluating sources helps in spreading misinformation.

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 Evaluating sources	a. covers only one subject such as business or law.	
2 Creative Commons	b. protects printed and digital content.	
3 Subject database	c. provides a cloud storage.	
OneDrive	d. means creators give permission to share their works	
Copyright law	e, is important to stop the spread of misinformation	
0		

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Model Exam 4

Choose the correct answer:

Theruns a computer's software and hardware. a. operating system b. CPU c. hardware

Sharing personal information online can lead to ... b. hacking

a. bullying

c. both a and b

The Miracle Child Rania Saleh, is a talented with Down Syndrome.

a. doctor b. explorer

c. programmer

4 A poem written in 1900 is

a. copyrightable b. not copyrightable

c. both a and b

(5) Wired networks connect devices using

a. Wi-Fi

b. radio waves

c. cables

Put (/) or (x):

1 It is important to balance between online and offline activities.

(2) Kartik Sawhney doesn't receive any awards for his work.

3 If you are a victim of data theft, there is no need to report the theft.

4 The big issue in the Internet of Things is cybersecurity.

(5) There is no difference between footnotes and citations.

Complete the following using the words between the brackets:

(Dynamic - Taha Hussein Library - digital citizen - Footnotes - Ports)

(1) Auses the internet in a responsible and ethical way.

. has special scanners that convert printed text into audio.

are placed at the bottom of each page.

web pages can be created using JavaScript and PHP.

connect computers with input and output devices.

1				
	Choose	the	correct	answer:

Mr. Kartik Sawhney uses technology to empower

a. people of determination b. computer engineers c. students

2 scans your face using the device's camera to confirm your identity.

a. Fingerprint authenticationb. Facial recognition c. Full disk

is an open-source operating system for mobile devices.

a. Android

b. iOS

c. macOS

Bookmark Tabs feature is used to save websites to provide quick access

a. Google Chrome

b. Mozilla Firefox

c. both a and h

s are/is special cameras placed on satellites or drones to collect electromagnetic radiation.

a. GPS

b. Remote sensors

c. Radars

6 To make the text bold in HTML, you can use the tag.

a. <bold>

b.

C. <5>

The process of providing credit to your sources is called

a. quotation

b. citation

c. summarizina

Put (✓) or (✗):

Without 3D glasses, holograms will look like 2D images.

Routers work as gateways that connect your device to an ISP.

3 It is a responsible behavior to leave your devices at risk without protection.

Machine learning is a type of artificial intelligence.

S Copyright includes only books, music, and videos.

6 In HTML, the <i> tag is used to display text in italics.

1 Linux is the most popular operating system all over the world.

8 E-readers are mainly used to surf the web and check email, like PCs.

1440 ICT Prim. 6 - First Term

Model Exam 6

Choose the correct answer:

Suggestions for videos on YouTube are considered an example of

a. virtual reality b. remote sensing

sensing c. machine learning

Sharing your friend's photos without their permission is a/an behavior.

a. responsible

b. irresponsible

c. safe

is taking someone's work and claiming it as your own.

a. Creative Commons b. Common knowledge c. Plagiarism

Mr. Sawhney cofounded the platform to help people of determination.

a. I-Access

b. I-Stem

c. I-Determination

5 simulates a 3D environment for users to explore and interact as if it were reality.

a. Virtual reality

b. Artificial intelligence c. Assistive technology

Put (✓) or (X):

1 Egypt established the Data Protection Law to protect its citizens.

The ability of a machine to think and learn is called AR.

Intellectual misbehavior can harm your reputation and result in legal action.

All Google search results are accurate and reliable.

S Small screens can make viewing complex graphics difficult.

(1)

3 Complete the following using the words between the brackets:

(AI - Common knowledge - digital piracy - Holograms - Wired networks)

1 connect devices using physical cables.

2) The sharing of copyrighted materials via the internet is called

3is a machine's intelligence that can be used to solve problems.

4 _____ are 3D image that you can see without special equipment.

is facts that are provable or generally known by the public.

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Model Exam 7

ericki of a section of the		
Choose the correct	answer:	onnected to each
a. Servers	Nohworks	C. 110D2
AL Did: El Robandi is	a/an at Nation	iai Geographic.
a explorer	b. computer experi	er b. eg. ammer
TI	envice or product is called	technolog
a assistive	b. cutting edge	c. virtual
is a closed	source operating system for	or mobile devices.
- Android	h Apple iOS	C. YVINDOWS
nlatform he	los the visually impaired	read digital texts.
a. The EKB	b. Google	C. Islemai.com
6 is a cloud s	storage provided by Micro	osoft for accessing files
a. Collections	b. Favorites bar	c. OneDrive
When searching online	e, make sure the information	on you get is
a. biased	b. unbiased	c. unreliable
8 empower deaf per	ople to translate their signs	to spoken or text output
a. Hearing aids	b. Smart glasses	c. Smart gloves
Footnotes are like	. except they are set at th	e bottom of each page
a. headings	b. quotation	c. citations
10 To create smallest head	ding in HTML, use the	tag.
a. <h1></h1>	b. <h6></h6>	c. <s1></s1>
1 An/A software m		or changed by the public.
a. open-source	b. closed-source	c. both of them
is a feature that al		
	b. Facial recognition	
database c		1111
	b. Subject	
G Complicated and hard		
	b. negative	
	•	
15 Visually impaired people		
a. augmented reality	b. artificial intelligenc	e c. hearing aids

N N	adal	Exam	0
IV	ouel	Exam	8

1	Word prediction in	smartphones is an examp	ole of		
		b. augmented reality		lligen	се
(2)		ogy reduces our carbon fo			
	a. Green	b. Blue	c. Red		
6	 a. ignore the owner b. E-reader is a mobil a. reading books 	eos, or infographics of some b. share without permiss e device that is mainly use b. watching videos cample on dynamic web d b. PHP	ion c. ask for perned for	nissior s	
(1 (2 (3	You should use we Kartik Sawhney stu Without HTML tag	ak passwords to protect you dies Computer Science ar s, a screen reader stops af easy access to information n	nd focuses on AI. ter every element.	((ng skil))) ls.

Choose from column (A) what suits it in column (B):

Column (A)	Column (B)	
1 MFA	a. is a platform supports people of determination.	
	b. provide clear images of the ground's surface.	
	c. requires at least two ways of identifying yourself.	
	d. is an operating system for Apple computers.	
(5) macOS	e. is used to experience virtual reality.	

5 macOS is the operating system used by 90% of the world's computers.

-

Model Exam 9

Choose the correct answer:

refers to the sources you used in your report.

c. Assumption b. Citation a. Opinion

2 _____ converts the digital text into audio to help blind people c. Screen magnifier b. Screen reader

a. Brille terminal 3 ______ is a feature that helps create citations for sources in Firefox.

b. Google Citation c. Collections a. Cite This

scrambles your data and requires a password to access it a. Full disk encryption b. Facial recognition c. both a and b

identifies and exploits system weaknesses to gain unauthorized access to data.

b. Misleading information c. Hackina a. Cyberbullying

Put (/) or (x):

1 Egypt has enacted a law against digital piracy.

2 Kartik Sawhney earned his Master's degree from Harvard University.

3 Al is a machine's intelligence that can be used to solve problems.

It is important to balance between online and offline activities.

Strong passwords contain letters, numbers, and special characters.

Complete the following using the words between the brackets:

(hacking - Facial recognition - Unbiased citations - Egyptian Archaeology)

means that the author is fair, when presenting information.

4scans your face using your device's camera to confirm your identity.

5 Footnotes are like, except they are placed in each page.

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Model Exam 10

Choose the correct answer:

1 Mr. Kartik Sawhney is a ..

a. National Geographic Explorer

b. computer expert c. both of them

② A cardboard VR headset is a/anway to experience VR using smartphone.

a. expensive

b. inexpensive

c. difficult

3 The HTML tag that is used to create a paragraph is

b. <a>

c. >

networks connect devices using radio waves.

a. Wired

b. Wireless

c. Both of them

5 If you are exposed to hacking, you should

a. let your contacts know b. tell a trusted adult c. both a and b

Put (√) or (X):

1) Mr. Sawhney develops apps to help people of determination.

Strong passwords contain at least 6 characters.

3 Studying the solutions to past problems helps solve future problems.

Using someone else's work without citation is called creative commons.

5 Common knowledge is copyrightable.

Complete the following using the words between the brackets:

(Smartgloves - Wireless network - Assistive technology - <a> - modem)

helps people of determination in their daily works.

is a tag that is used to create a hyperlink in HTML.

connect devices without wiring by using radio waves.

4 translate sign language to spoken or text output.

1

Model Exam 11

-				
ab	Choose	the	correct	answer:

- 1 You can create a website using
 - a. programming languages b. platforms
 - is/are collections of information stored in a computer system
 - a. Search results
- b. Databases
- c. Software

c. both of them

- (3) If someone you know spreads misinformation, you should ...
 - a. let them know
- b. bully them
- c. block them
- The most popular operating system for mobile worldwide is ...
 - a. Windows
- b. Android
- c. Apple iOS
- 5 To make the images accessible on web pages, add to
 in HTML.
 - a. alt-text

b. meta

- c. title
- 6is used to build YouTube, Facebook, and Amazon.
 - a. Swift

- b. JavaScript
- c. Scratch
- In Egypt, works enter the public domain years after the creator's death.
 - a. 30

b. 40

c. 50

Put (✓) or (X):

- 1 The EKB includes safe and accurate sources.
- 2 Smartphones and tablets are forms of computers.
- 3 You can press "Ctrl + C" to cut text or an image in Windows.
- It is responsible behavior to download copyrighted music or movies for free.
- (5) Virtual reality allows you to explore world museums from home.
- 6 Digital piracy is the sharing of non-copyrighted material via internet networks.
- Mobile devices decrease attention spans through easy access to information.
- You should change your passwords every three months to protect your accounts.

1500 ICT Prim. 6 - First Term

Model Exam 12

Choose the correct answer:

- are electronic devices that create, process, and store information.
 - a. Computers b. Routers c. Switches
- 2 The remote sensors are special placed on satellites, drones, and planes.
 - a. computers b. cameras c. microphones
- 3 If the product is practical and meets customer needs, the user experience will be
 - a. positive b. negative c. neutral
- With HTML tags, a screen reader ______ after every element in the web page.
 - a. repeats b. stops
- c. continues
- law requires companies to use strict security stands to protect their data.
 - a. Copyright
- b. E-marketing
- c. Data protection
- 6 If you've been hacked on your Instagram account, it is better to change
 - a. Instagram password b. all accounts passwords c. none of them
- Severe cases of digital piracy and breaking the law can result in
 - a. fines
- b. jail time
- c. both a and b

Put (✓) or (x):

- Mozilla Firefox has its own cloud storage.
- ② Hubs allow wireless devices to connect to a network.
- 3 Egypt launched several initiatives to empower people of determination. (
- General databases provide information on a specific topic.
- To be safe online, chat and play games with people you know and trust. (
- 6 It is not important to keep your security settings up-to-date.
- If you think your data has been compromised, it is important to tell your parent.
- 8 Being passionate about your idea indicates that you are serious about it.

	Choose the correct answer:
-	① Checking the accuracy, reliability, and validity of information is called
	a evaluating b protecting c. searching
	include specialized search engines and sources that you can review.
	a. e-maps b. Online libraries c. Both a and b
-0.50	3 VPN's protect devices by keeping your private.
	a. school address b. IP address c. home address
	4 The shortcut used in macOS to paste text or image is
100	a. Cmd + V b. Ctrl + V c. Ctrl + P
	5 Downloading or clicking on links to products may expose you to
- 1	a. malware b. hidden charges c. both a and b
7 1	6 To see web page alt-text, right click on an image and select
	a. open b. inspect c. properties
C.	7 HTML is with all the major web browsers.
	a. compatible b. incompatible c. irrelevant
1	Put (✓) or (X):
~	It is not allowed to download materials from EKB.
	2 Google Keep can save web content, take notes, and add labels.
	3 Works in the public domain require the creator's permission for use.
	4 Mobile devices can extend the learning of students outside of the
	classroom.
	5 One of the goals of assistive technology is to improve someone's
1	independence.
	6 Programming languages are usually closed source.
	The Geospatial technologies assist in the geographic mapping and analysis
	of human societies.
	8 Virtual reality is a simulated 2-D environment that allows users to interact
	with their surroundings.